



Guide for Registration of Telecommunication Equipment

IDA GUIDE EQR
Issue 2 Rev 9, March 2016

Info-Communications Development Authority of Singapore
10 Pasir Panjang Road
#10-01 Mapletree Business City
Singapore 117438



© Copyright of IDA, 2016

This document may be downloaded from the IDA website at: <http://www.ida.gov.sg> and shall not be distributed without written permission from IDA

Contents

		Page
1	Introduction	3
2	Equipment Registration	3
	2.1 Equipment Registration Procedure	3
	2.2 Equipment Registration Schemes	3
	2.2.1 Enhanced Simplified Equipment Registration (ESER) Scheme	4
	2.2.2 Simplified Equipment Registration (SER) Scheme	4
	2.2.3 General Equipment Registration (GER) Scheme	5
	2.3 Acceptance of Online Application for Equipment Registration	6
	2.4 Approval	6
	2.5 Validity of Equipment Registration	7
	2.6 Fees Payable	7
	2.7 Registration Enquiries	8
3	Responsibilities of Suppliers	8
	3.1 General Obligations	8
	3.2 Equipment Approval by way of Registration	9
	3.2.1 Telecommunication Equipment requiring Equipment Registration	9
	3.2.2 Telecommunication Equipment not requiring Equipment Registration	9
	3.3 Technical Compliance	9
	3.4 Renewal of Equipment Registration	10
	3.5 Modification	10
	3.6 Transfer of Equipment Registration	11
	3.7 Usage, Installation and Maintenance	11
4	Radio-communication Equipment which requires IDA Licensing	11
5	Equipment Registration of Machine-to-Machine Communication Device with embedded SIM card	12
6	Equipment Registration of Coaxial Cable Home Networking Equipment	12
Annex A-1	Equipment Registration Schematic Diagram	13
Annex A-2	Application For Confirmation Of Conformity Schematic Diagram	14
Annex B	Equipment Registration Fees	15
Annex C	Supplier's Declaration of Conformity Form	17
Annex D	List of Technical Regulations	18
	Table D.1 Technical Specifications for Line Terminal Equipment	18
	Table D.2 Technical Specifications for Radio-communication Equipment	18
Annex E	Addendum/Corrigendum	19
	 Appendix to the IDA Guide for Registration of Telecommunication Equipment	 25
	Screenshots 1.1 to 1.6 Demonstrating Access to Equipment Registration Online	
	Screenshots 2.1 to 2.8 Demonstrating ESER online registration	
	Screenshots 3.1 to 3.9 Demonstrating SER online registration	
	Screenshots 4.1 to 4.9 Demonstrating GER online registration / Application for COFC	
	Screenshots 5.1 to 5.6 For e-Payment	

This Guide is subject to review and revision.

IDA makes no warranty of any kind with regard to the information provided in this Guide and shall not be liable for errors contained herein or incidental or consequential damages in connection with the use of this Guide.

1. Introduction

- 1.1 The Guide for Registration of Telecommunication Equipment is provided for suppliers to register their equipment with IDA. It describes the procedure to be followed and requirements to be fulfilled by suppliers seeking to register their equipment under the Equipment Registration framework. Equipment registered with IDA will be available for viewing from the equipment search list via the <https://eservice.ida.gov.sg/tls>, and has the approval of IDA for sale and use.
- 1.2 Equipment registration shall be based on the submission of the Supplier's Declaration of Conformity (SDoC). The SDoC signifies that the supplier has carried out conformity assessment on the equipment to IDA's Technical Specifications. The supplier declares equipment conformity based on results of conformity assessment, supported by test reports and technical documents.
- 1.3 The term telecommunication equipment or equipment refers to both the line terminal and radio-communication equipment, and supplier is the generic term for local dealer. The supplier shall be the declaring party responsible for ensuring that the equipment meets and, if applicable, continues to meet, the requirements on which the declaration is based.

2. Equipment Registration

2.1 Equipment Registration Procedure

- 2.1.1 The supplier makes a registration request on-line via <https://eservice.ida.gov.sg/tls> under the **Equipment Registration** group, using one of the following equipment registration online selections:
- **Equipment Registration for complex multi-line equipment or SRD/LPD**
For suppliers who wish to register complex multi-line equipment or the Short Range/Low Power Devices (SRD/LPD).
 - **Equipment Registration for Self-Declaration**
For suppliers who wish to register GSM, 3G, GMPCS Mobile Terminals, ADSL and Cable Modems.
 - **Telecommunication Equipment Registration/Application for Confirmation of Conformity**
For suppliers who wish to register any telecommunication equipment listed in Table B.1 of Annex B or for suppliers who wish to apply for Confirmation of Conformity for exempted equipment listed in Table B.2 of Annex B.
- 2.1.2 Information on Equipment Registration framework is available on IDA website at www.ida.gov.sg/EquipmentRegistrationFramework.
- 2.1.3 Overview of the Equipment Registration framework is given in the Equipment Registration Schematic Diagram in Annex A-1. Screenshots leading to the equipment registration online selections are shown in Screenshots 1.1 to 1.6 in the Appendix to the Guide.

2.2 Equipment Registration Schemes

All telecommunication equipment may be registered under one of the following three schemes:

- (a) **Enhanced Simplified Equipment Registration, ESER** (Self-declaration)
- (b) **Simplified Equipment Registration, SER** (Self-declaration)

- (c) **General Equipment Registration, GER** (Declaration certified by an IDA recognised body or evaluated by IDA)

2.2.1 Enhanced Simplified Equipment Registration (ESER) Scheme

- 2.2.1.1 ESER applies only to complex multi-line equipment or Short Range Devices/Low Power Devices (see Table B.1 in Annex B).
- 2.2.1.2 Supplier using the ESER (following Route 1a in the Equipment Registration Schematic Diagram in Annex A-1 and Screenshots 2.1 to 2.8 in the Appendix to the Guide), is making an online declaration of conformity to the applicable IDA Technical Specifications (see Annex D). The supplier has carried out their own conformity assessment for the model of equipment based on test results or evidence of equipment certification given by the manufacturer or an accredited body. The supplier is able to attest that the equipment is capable of meeting the relevant requirements set by IDA in the technical specifications.
- 2.2.1.3 The ESER shall be accompanied by a sales brochure with technical data (file attachment to the online application which includes a picture of the equipment and technical data such as operating frequency band and output power of the SRD/LPD or the regulatory compliance information of the complex multi-line equipment).
- 2.2.1.4 No registration fee is payable in respect of an application submitted via the ESER.
- 2.2.1.5 For post market surveillance, IDA may require the supplier to submit the test results or evidence of equipment certification as proof of conformity with the applicable IDA Technical Specifications (see Annex D)

2.2.2 Simplified Equipment Registration (SER) Scheme

- 2.2.2.1 SER scheme applies only to cellular (2G/3G/LTE/GMPCS) mobile terminals and broadband access equipment e.g. ADSL and Cable modems (see Table B.1 in Annex B).
- 2.2.2.2 Supplier using SER (Route 1b in the Equipment Registration Schematic Diagram in Annex A-1 and Screenshots 3.1 to 3.9 in the Appendix to the Guide) has carried out their own conformity assessment for the model of equipment based on test results or evidence of equipment certification given by the manufacturer or an accredited body. The supplier is able to attest that the equipment is capable of meeting the applicable IDA Technical Specifications (see Annex D).
- 2.2.2.3 The SER request shall be accompanied by the following registration package (file attachments to the online application and e-Payment):
 - (i) SDoC (Annex C);
 - (ii) Photos of equipment (front, rear, side view and product label which shows trade and product name);
 - (iii) Sales brochure with technical data; and
 - (iv) Registration fee (Annex B).
- 2.2.2.4 For post market surveillance, IDA may require the supplier to submit the test results or evidence of equipment certification as proof of conformity with the applicable IDA Technical Specifications.

2.2.3 General Equipment Registration (GER) Scheme

2.2.3.1 GER scheme applies to all categories of telecommunication equipment shown in Table B.1 of Annex B. However, for equipment categories such as analogue land mobile, cellular base station, UWB and wireless broadband access equipment, it is mandatory to register under the GER scheme.

2.2.3.2 IDA mandates GER under the following circumstances:

- (a) Equipment having high potential for causing interference;
- (b) Equipment of new technologies which are yet to be stabilised.

2.2.3.3 Supplier using GER is required to submit evidence of equipment certification (i.e. declaration certified by an IDA recognised body); or the relevant test reports and supporting documents for the model of equipment (i.e. declaration evaluated by IDA).

2.2.3.4 Declaration certified by an IDA recognised body

- (a) For such declaration (see Route 2a in the Equipment Registration Schematic Diagram in Annex A-1 and Screenshots 4.1 to 4.9 in the Appendix to the Guide), conformity assessment for the model of equipment has been carried out by a certification body recognised by IDA. The GER request shall be accompanied by the following registration package (file attachments to the online application and e-Payment):
 - (i) SDoC (Annex C);
 - (ii) Certificate issued by IDA recognised Certification Body;
 - (iii) Photos of equipment (front, rear, side view and product label which shows trade and product name);
 - (iv) General information or sales brochure; and
 - (v) Registration fee (Annex B).
- (b) In addition, IDA accepts equipment certification by [local or foreign certification bodies recognised by IDA](#) under a Mutual Recognition Arrangement (MRA). Certification is a procedure by which the recognised certification body gives written assurance that the equipment conforms to IDA's Technical Specifications.

2.2.3.5 Declaration evaluated by IDA

- (a) For such declaration (see Route 2b in the Equipment Registration Schematic Diagram in Annex A-1 and Screenshots 4.1 to 4.9 in the Appendix to the Guide), IDA will carry out the technical evaluation for the model of equipment based on test reports and a set of technical documents submitted by the supplier. The GER request shall be accompanied by the following registration package (file attachments to the online application and e-Payment):
 - (i) SDoC (Annex C);
 - (ii) Photos of equipment (front, rear, side view and product label which shows trade and product name);
 - (iii) General description;
 - (iv) Sales brochure with technical data;
 - (v) Test reports;
 - (vi) Facilities supported;

- (vii) User guide; and
 - (viii) Registration fee (Annex B).
- (b) In addition, IDA accepts test reports, which present test results of equipment testing done according to IDA's Technical Specifications by (i) [testing labs recognised by IDA under MRA](#); (ii) testing labs accredited by accreditation bodies recognised by IDA; or (iii) equipment manufacturers.

2.3 Acceptance of Online Application for Equipment Registration

- 2.3.1 Any registration request must be accompanied by the required registration package as file attachments to the online application. All documents (file attachments or electronic media) submitted to IDA shall be in English Language. Where applicable, applicant shall proceed to make ePayment when prompted by the system and via email (see Screenshots 5.1 to 5.6 in the Appendix to the Guide). Registration request that is not supported by complete, adequate and proper documentation and information and payment of applicable fees will not be accepted.

2.4 Approval

2.4.1 Approval of complex multi-line equipment or SRD/LPD under the ESER

IDA will not carry out any evaluation of the equipment before registering the device under the ESER. Once the system has accepted the online declaration of conformity for the model of the equipment, an email notification with a registration number in the format N1234-YY will be sent to the supplier. The device has been successfully registered with IDA for sale for local use, and its information is available to the public upon selecting an equipment search (see Screenshot 1.1 in the Appendix to the Guide).

2.4.2 Approval of Telecommunication Equipment under the SER/GER

- 2.4.2.1 On receiving the registration request (SER or GER), IDA will carry out verification or technical evaluation by way of document examination. Verification or technical evaluation will be completed within three (3) or ten (10) working days after accepting the registration request depending on the route available to or selected by the supplier (see the Equipment Registration Schematic Diagram, Annex A-1). If technical details or clarifications are requested by IDA, the supplier must provide them promptly. IDA will reject the registration request if the supplier fails to respond within thirty (30) days from the date of IDA's request for information or if the registration request does not meet the stipulated requirements. The fees paid is non-refundable.
- 2.4.2.2 When IDA completes the verification or technical evaluation, and is satisfied that the said equipment (object of supplier's declaration) has complied with the stipulated requirements, IDA will authorise the equipment registration and a registration number will be assigned to the equipment model in the format: S1234-YY for equipment registered under SER and G1234-YY for equipment registered under GER.
- 2.4.2.3 The system will inform the applicant via an email to proceed to print a copy of the registration letter using the available e-Service (Screenshot 4.1 in the Appendix to the Guide) as proof that the equipment has been successfully registered with IDA for sale for local use. Information of the registered equipment is also available to the public upon selecting an equipment search (see Screenshot 1.1 in the Appendix to the Guide).

2.5 Validity of Equipment Registration

- 2.5.1 A record of telecommunication equipment registered with IDA is valid for five (5) years from the date of assignment of registration number. Registration may be renewed for periods of 5 years at a time.
- 2.5.2 Validity of the equipment registered with IDA may be affected if changes are made to the equipment. The supplier must inform IDA of any proposed changes to be made to the registered equipment (see § 3.5 on Modification).
- 2.5.3 The equipment to be sold must be the same as the model that has been registered with IDA. The registered equipment shall not be modified in any way without re-registering with IDA.
- 2.5.4 Successful registration with IDA shall not be taken as an IDA guarantee for the proper functioning, performance or quality of the equipment. Suppliers must ensure that the registered equipment inter-works properly with the public telecommunication network.
- 2.5.5 IDA shall not be liable for any interference caused to any other equipment, injury, loss of life and/or damages to property whatsoever, as the direct or indirect result of the use of any registered equipment.
- 2.5.6 In cases of doubt relating to interpretation of the IDA Technical Specifications, method of carrying out tests or validity of statements made by the equipment manufacturers, IDA's decision shall be final.

2.6 Fees Payable

- 2.6.1 Regulation 20(3) of the Telecommunications (Dealers) Regulations (Cap 323, Rg) specifies that any application for equipment registration shall be accompanied by the appropriate fee. The applicable equipment registration fees are set out in the Fourth Schedule of the Dealers' Regulations and reproduced in Table B.1, Annex B. The fees are charged on per model basis.
- 2.6.2 Where fees are payable, applicant will be prompted by the system and via email to make online ePayment (see Screenshots 5.1 to 5.6 in the Appendix to the Guide). IDA will process the application upon confirmation on payment received. The fee is non-refundable.
- 2.6.3 If the applicant fails to make the payment within 30 days from the email notification, the application will be cancelled.
- 2.6.4 IDA may classify a piece of equipment as one (1) or more of the types of equipment set out in Annex B for the purpose of determining the applicable fees. For equipment with multi-interfaces or intended to be used for multi-purpose, separate fees may be charged for each interface or type of use. In the event of incorrect payment made, the application will be returned for applicant to top-up the deficit.
- 2.6.5 Where a declaration is for a family series of the same type of equipment, it shall cover each individual model of equipment in the family series.
- 2.6.6 Registration request may be rejected if it is found to be incomplete or does not meet the stipulated requirements. A re-submission will be subject to new registration fee.

2.7 Registration Enquiries

Registration enquires shall be addressed to the following:

Manager (Equipment Registration)
Radiocomm Licensing & Enforcement
Infocomm Development Authority of Singapore
10 Pasir Panjang Road
#10-01 Mapletree Business City
Singapore 117438

Tel No: 6211 1937
Fax No: 6659 2503
Email: IDA_TLSAPPN@ida.gov.sg

3. Responsibilities of Suppliers

3.1 General Obligations

3.1.1 Under the Telecommunications (Dealers) Regulations (Cap 323, Rg), a supplier (local dealer) who wishes to manufacture, import, let hire, sell or offer or possess for sale any telecommunication equipment must first obtain a licence. Thereafter, the supplier is required to comply with the relevant licence conditions.

3.1.2 The supplier who holds a Dealer's Licence can sell telecommunication equipment that is registered for sale with IDA under regulation 20(6) of the Telecommunications (Dealers) Regulations (Cap 323, Rg). In addition, the supplier can also sell telecommunication equipment set out in the First Schedule of the Regulations, and reproduced in Table B.2, Annex B, without the requirement of registering such equipment with IDA.

3.1.3 The supplier must, before selling any telecommunication equipment, ensure that:

- (a) equipment meets the applicable standards and specifications (see the list of IDA Technical Regulations/Technical Specifications in Annex D);
- (b) equipment works correctly with the relevant telecommunication system or equipment of the telecommunication system licensee to which it is connected; and
- (c) the supplier will cease to sell the equipment if so directed by IDA and dispose of the equipment at the supplier's own expense in the manner directed by IDA.

3.1.4 The supplier must ensure that any telecommunication equipment, whether mains or battery powered, must be of a design that conforms with international safety standards (including radiation safety), specified in the appropriate IDA Technical Specifications (e.g. IEC 60950-1 for electrical safety and ICNIRP recommendations for limiting exposures to time-varying EMFs in the frequency range up to 300 GHz).

3.1.5 Where applicable, the supplier must ensure that the telecommunication equipment intended for sale in Singapore complies with the electromagnetic compatibility (EMC) requirements specified in the IEC CISPR 22.

3.1.6 The supplier must ensure that supporting documents are available when requested by IDA to show that the equipment conforms to IDA's standards and specifications. The required supporting documents are as follows:

- (i) Description of equipment;
- (ii) Sales brochure with technical data;
- (iii) Test reports;

(iv) Facilities supported; and

(v) User Guide

3.1.7 The supplier shall retain the supporting documents for at least 5 years (validity period of the registration) or may be longer at their discretion, considering the specific needs of their customers.

3.1.8 The supplier shall not manufacture, import, let hire, sell or offer or possess for sale any prohibited equipment set out in the Third Schedule of the Regulations.

3.2 Equipment Approval

3.2.1 Telecommunication Equipment requiring Equipment Registration

3.2.1.1 The supplier shall not sell any telecommunication equipment set out in Table B.1, Annex B until the supplier has made an online Supplier's Declaration of Conformity and registered the equipment with IDA.

3.2.1.2 IDA may invalidate the registration at any time for failure to comply with the terms and conditions for equipment registration established in this Guide, or if IDA is satisfied that the equipment no longer complies with the stipulated requirements.

3.2.2 Telecommunication Equipment not requiring Equipment Registration

3.2.2.1 Suppliers of telecommunication equipment set out in the First Schedule of the Regulations, and reproduced in Table B.2, Annex B, are exempted from the requirement of registration with IDA. However, under regulation 20(A) of the Regulations, suppliers of such equipment may opt to apply for Confirmation of Conformity (COFC). The COFC is not subject to renewal.

3.2.2.2 Supplier who opts to apply for COFC may submit an online application for Confirmation of Conformity and is subject to an application fee (Table B.2, Annex B). The submission requirement and process of COFC is indicated in Annex A-2. Upon authorisation of the application, a confirmation number in the format: C1234-YY will be assigned to the equipment model for the issuance of COFC.

3.3 Technical Compliance

3.3.1 Whenever compatibility or other technical problem arises in connection with the use of registered equipment, the supplier shall solve all these problems within one (1) month after being notified by IDA. If required, the supplier shall make all the necessary modifications, alterations or substitutions to the equipment already installed or being installed. In cases where the nature of the problem is not easily identified, the supplier shall provide assistance to IDA to identify the source of the problem.

3.3.2 When a network operator, with the approval of IDA, upgrades its network and/or changes the network interface specification such that the registered equipment is no longer compatible with the network, IDA may invalidate the registration giving six (6) months notice in writing.

3.3.3 IDA may carry out further evaluation on the equipment without stating any reasons, as and when required, after the registration.

3.4 Renewal of Equipment Registration

- 3.4.1 The supplier will be prompted by a system generated email for equipment due for renewal one month (1) before the expiry date of the current validity period. Where applicable, the supplier may renew an equipment registration online at <https://eservice.ida.gov.sg/tls> via the eService 'Renewal of Equipment Registration, where the list of equipment registrations due for renewal is published.
- 3.4.2 If the supplier does not wish to renew or fails to renew the registration, it will be cancelled out and the supplier will not be allowed to import or sell the equipment in Singapore.
- 3.4.3 If the request for renewal of registration is accepted by IDA, its validity will be extended for another five (5) years. A fee of SGD 50 is charged for the renewal request.

3.5 Modification

3.5.1 Where applicable, the supplier shall inform IDA of any proposed modification that is to be made to the registered equipment or equipment that has been issued with Confirmation of Conformity.

3.5.2 Modifications are categorised as follows:

(a) Class 1 Modifications

These are modifications performed on the registered equipment that do not affect compliance with the IDA Technical Specifications. Suppliers may continue to sell Class 1 modified equipment without the need to notify IDA of the changes. Re-assessment by IDA is not required. Class 1 Modifications refer to:

- (i) Change in size, shape, colour and material of enclosure;
- (ii) Change in driver or software; or
- (iii) Change in printed circuit board layout without component or schematic changes; or
- (iv) Change in Specific Absorption Rate (SAR), provided the change does not affect compliance to IDA technical standards, and the changed SAR value is within the safety limit of 2 Watts/Kilogram at 10 gram of tissue set by International Commission on Non-Ionising Radiation Protection.

(b) Class 2 Modifications

These are modifications performed on the registered equipment that will affect compliance with the IDA Technical Specifications. Class 2 Modifications require re-registration with IDA. Suppliers should submit a fresh registration request to IDA together with the relevant registration package. Such modified equipment shall only be sold for use locally after re-registration with IDA. Class 2 Modifications refer to:

- (i) Change in transmitting antenna;
- (ii) Change in output power or radiated field strength;
- (iii) Addition of new network interface card;
- (iv) Change in the existing network interface card; or
- (v) Change not considered a Class 1 modification

3.5.3 When IDA is satisfied that the modified equipment has complied with the stipulated requirements, IDA will update the record and List of Registered Equipment.

- 3.5.4 The supplier shall make a fresh registration request to IDA for any changes falling outside the scope of Class 1 and 2 Modifications. Such request will be subject to the registration requirements and fees set out in Annex B.

3.6 Transfer of Equipment Registration

- 3.6.1 A licensee may seek IDA's approval for the transfer of his registration of telecommunication equipment to another licensee due to business restructuring, merger or acquisition. The transfer is subject to the following conditions:
- (i) The transferee shall be responsible for ensuring that all registered equipment to be transferred are designed and constructed in accordance with the standards and specifications published by IDA. The transferee shall be required to submit a fresh declaration of conformity in accordance with IDA's technical standards in respect of the registered equipment to be transferred; and
 - (ii) The validity period of the equipment registration to be transferred shall continue to be valid only for the remaining period of the existing equipment registration but may be renewed where applicable.

3.7 Usage, Installation and Maintenance

- 3.7.1 Suppliers shall inform their customers of their responsibility for the use, installation and after-sales maintenance of the equipment. Suppliers shall in addition, inform their customers on the non-liability of IDA for the use, installation and after-sales maintenance of the equipment.
- 3.7.2 Suppliers shall ensure that there is proper installation and after-sales maintenance services of their equipment to meet customers' needs.
- 3.7.3 Where required by IDA, suppliers shall undertake to notify IDA of the name and address of every customer to whom such equipment has been sold or hired.
- 3.7.4 Suppliers shall advise their customers that the use of registered equipment to access any network operator's services shall be subject to the prevailing tariffs and terms of the various service schemes.
- 3.7.5 Where a licence is required for the use of the telecommunication equipment under the Regulations, suppliers shall inform every customer of the need to obtain such a licence from IDA.

4 Radio-communication Equipment which requires IDA Licensing¹

- 4.1 A successful registration of any radio-communication equipment should not be construed as any form of representation by IDA that the specific operating frequency of the equipment will be granted or made available by IDA for the use or operation of the equipment in Singapore.
- 4.2 In no circumstance does IDA represent to any equipment supplier or telecom dealer who sells any registered radio-communication equipment for use in Singapore or any person who buys such equipment that IDA will grant or make available any specific operating frequency to the supplier, dealer or person for use with the equipment.
- 4.3 Separate written approvals should be sought and obtained from IDA for the assignment of the operating frequency and the output power for the use with any registered radio-communication equipment. The grant and assignment of any specific operating frequency and the allocation of the output power for any radio-communication equipment shall be at the sole discretion of IDA.

¹ Please refer to the relevant Technical Specifications for Radio-communication Equipment which requires IDA Licensing

- 4.4 Equipment suppliers or telecom dealers shall ensure that the buyers of the equipment obtain the necessary approvals from IDA to operate in any assigned frequency band and the allocated power output before the sale of the radio-communication equipment.

5 Equipment Registration of Machine-to-Machine (“M2M”) Equipment with embedded SIM card

- 5.1 IDA will only allow equipment registration of M2M Equipment embedded with local SIM card.
- 5.2 Where M2M Equipment is embedded with overseas SIM (permanent roaming), it shall not be registered under the equipment registration framework. Please contact IDA (contact details given in Section 2.7) for more information or clarification on M2M equipment.

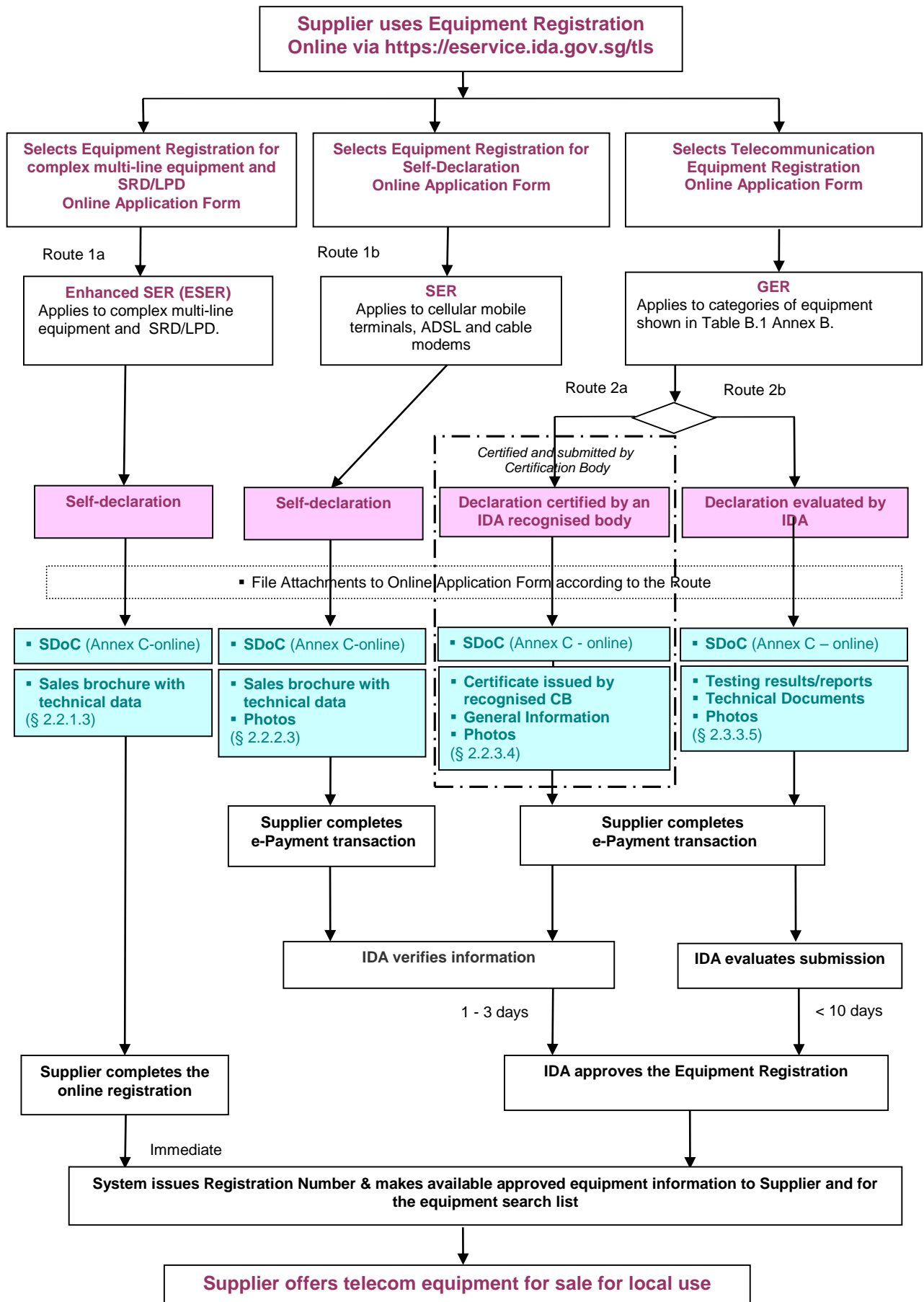
6 Equipment Registration of Coaxial Cable Home Networking (“CCHN”)² Equipment

- 6.1 IDA introduces CCHN Regulatory Framework governing the sale and use of CCHN Equipment. IDA publishes the Code of Practice for the Provisioning of Coaxial Cable Home Networking Solutions (the “Code”) in conjunction with the Technical Specification for CCHN (IDA TS CCHN) which sets out the technical requirements for equipment recommended for the coaxial cable home networking solution.
- 6.2 Equipment suppliers/dealers dealing in CCHN Equipment are required to ensure that the equipment complies with the technical requirements set out in the IDA Technical Specification for Coaxial Cable Home Networking (IDA TS CCHN), and register the equipment under the SER scheme before such equipment is sold for use in Singapore.
- 6.2 In addition, equipment suppliers/dealers shall comply with the applicable provisions set out in the “Code of Practice for the Provisioning of Coaxial Cable Home Networking Solutions” which include:
- (i) Dealers that are dealing in CCHN Equipment shall not sell or let for hire CCHN Equipment to any person who is not a recognised telecommunication licensee³ in Singapore, except where approved by IDA.

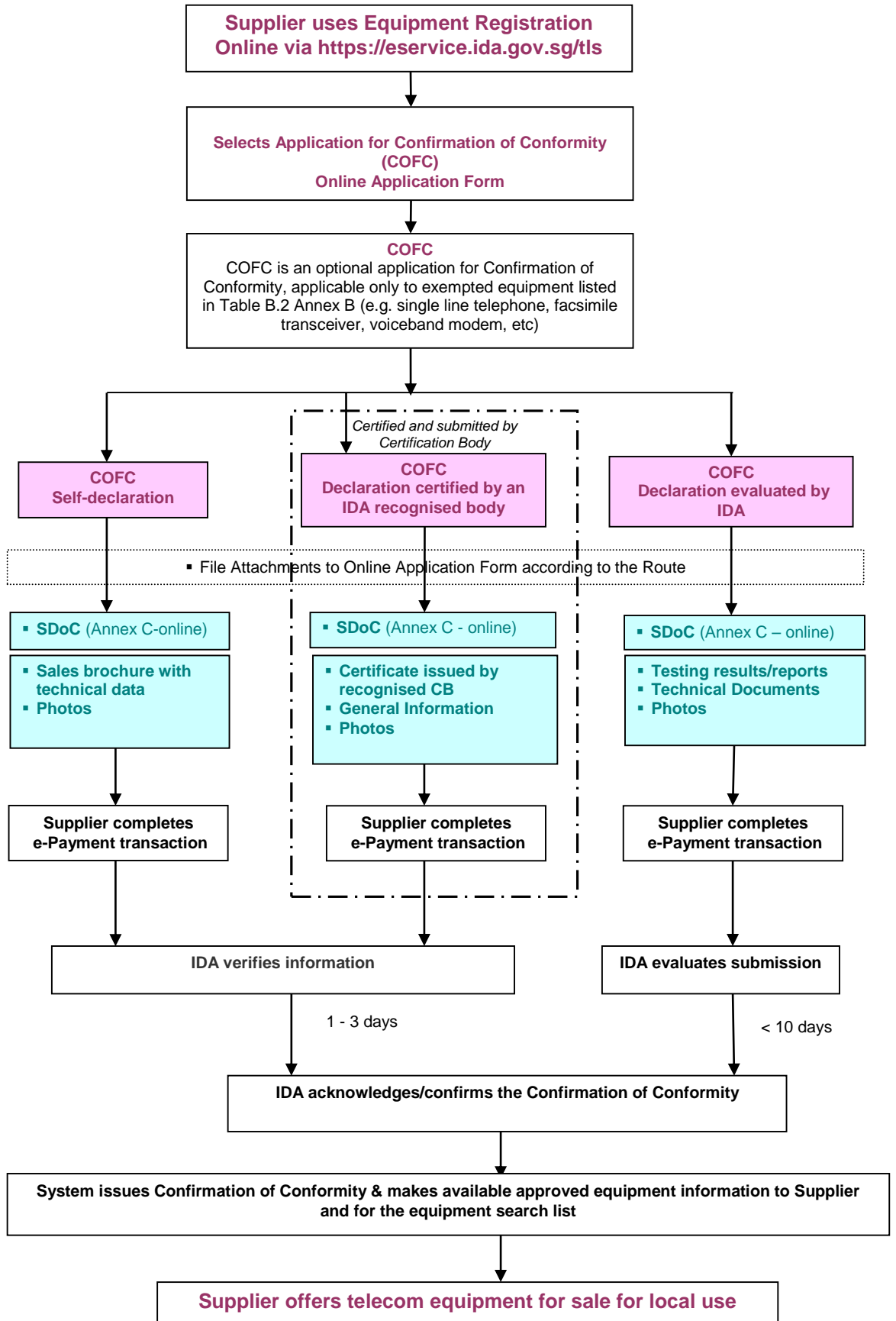
² CCHN is one option for home networking solution that would tap on existing coaxial cables in homes to transmit data within the homes by installing coaxial adaptors and isolation filters (collectively known as the “CCHN Equipment”)

³ Recognised telecommunication licensee refers to Facilities-based Licensee or a Service-based Licensee to which IDA has granted a Facilities-Based Operations licence or Services-Based Operations licence under section 5 of the Telecommunications Act

EQUIPMENT REGISTRATION SCHEMATIC DIAGRAM



**APPLICATION FOR CONFIRMATION OF CONFORMITY SCHEMATIC DIAGRAM
(OPTIONAL FOR EXEMPTED EQUIPMENT)**



Annex B

EQUIPMENT REGISTRATION FEES

Table B.1: Telecommunication Equipment requiring Equipment Registration

Equipment Category/Type - Mandatory under GER Scheme				
Category	Type	Registration Fee (SGD)		Technical Specification
Land Mobile Radio	UHF/VHF Land Mobile Transceiver; Radio Data Transceiver; IDEN and TETRA trunk radio	350		IDA TS LMR
Mobile Base Stations	2G/3G/LTE Cellular Base Station and Repeater System			IDA TS CBS
Wireless Broadband Access (WBA)	2.3 GHz and 2.5 GHz WBA or WiMAX			IDA TS WBA
Ultra-Wideband (UWB)	UWB devices			IDA TS UWB
Short Range Devices, where the operation requires IDA approval	Remote Control for Cranes and other high power SRD listed in Table 2 of IDA TS SRD			Table 2 of IDA TS SRD
Equipment Category/Type - Mandatory under SER Scheme				
Category	Type	Registration Fee (SGD)		Technical Specification
		SER	GER (optional)	
Mobile Terminals	2G/3G/LTE Cellular Mobile Terminal ⁴	100	350	IDA TS CMT
	GMPCS Equipment			IDA TS GMPCS
Broadband Access Equipment	ADSL Modem	100	500	IDA TS ADSL
	Cable Modem			IDA TS CM
	Coaxial Cable Home Networking (CCHN) Equipment ⁵			IDA TS CCHN
Equipment Category/Type which can be registered under ESER Scheme				
Category	Type	Registration Fee (SGD)		Technical Specification
		ESER	GER (optional)	
Complex/Multi-Line Equipment	PABX, KTS, Multi-Line System, Voice Messaging System	None	500	IDA TS PSTN
	ISDN Basic Access, Primary Rate Access and NT1 Equipment			IDA TS ISDN
	Powerline Communications (PLC) Home Networking equipment			IDA TS PLC
	Coinphone/Payphone		350	IDA TS PSTN
Short Range/Low Power Devices (SRD/LPD)	CT0 & DECT Cordless Phone	None	350	IDA TS CT-CTS
	446 MHz Portable radio (PMR446) and 446 MHz Multi-channel portable radio (MCR446) at less than 500mW			IDA TS LMR
	Alarm, RFID, radio-detection, on-site paging and vehicle radar systems, remote controls, telecommand, telemetry, wireless microphone and video transmitter, wireless LAN and Bluetooth			Table 1 of IDA TS SRD
Integrated Receiver Decoders for use with 2 nd - generation Digital Terrestrial Television broadcasting system (DVB-T2 IRD)	DVB-T2 IRD includes receiver set-top box, Integrated Digital TV (IDTV), etc. There are two types:	None	350	Part A of IDA/MDA TS DVB-T2 IRD
	Basic DVB-T2 IRD			
	Basic DVB-T2 IRD + Multi-channel Audio			

Notes:

- Notwithstanding the fees stated above, registration fee is SGD 100 for equipment certified and submitted by IDA's recognised Certification Bodies.
- Suppliers may opt to register equipment using the GER scheme for equipment under the SER or ESER scheme.
- Standalone radio modules if sold separately will be subject to equipment registration.
- For telecom network interface card which is Independent of Host (IOH), supplier may register the card and host/chassis separately to allow for flexible equipment configuration.
- Registration fee for second or subsequent model of equipment of a family series is SGD 50 per model. Models of family series refer to models of equipment that shares the same technical specifications, design and electrical characteristics in respect of network interface, electromagnetic compatibility and electrical safety; and share the same test results/certification with the already registered equipment.
- Registration is valid for 5 years and may be renewed for periods of 5 years at a time.
- Except for ESER, fee for renewal of an equipment registration is SGD 50.
- Request for re-registration due to class 2 modifications is subject to a fee of SGD 100 on a per model basis.
- Latest issues of the IDA Technical Specifications are available on IDA website at www.ida.gov.sg/Standards.

⁴ For mobile terminals with embedded overseas SIM card, please refer Section 5 of the Guide on additional information on Equipment Registration of Machine-to-Machine ("M2M") Communication Device with embedded SIM card.

⁵ Please refer to Section 6 of the Guide for additional information on the CCHN Regulatory Framework.

Table B.2: Telecommunication Equipment not requiring Equipment Registration

Category of Telecom Equipment & Examples of Applications	Optional Application for Confirmation of Conformity (COFC)		Technical Specification
	COFC - Self-Declaration	COFC- Declaration- Evaluated by IDA	
	Application Fee (SGD)		
Exempted Single Line Equipment			
Telephone (standard / multi-feature / image / data / switching)	(100)	(350)	IDA TS PSTN
Line interface – cordless phone			
Telephone ancillary			
Auto-dialler			
Auto answering / recording set			
Caller identification equipment			
Security alarm system			
Facsimile transceiver / fax modem			
Voice band modem			
EFTPOS / CCAT			
Telex interface unit	(100)	(350)	IDA TS TLXN
Digital leased circuit equipment	(100)	(350)	IDA TS DLCN

Notes:

1. Notwithstanding the fees stated above, application fee is SGD 100 for equipment certified and submitted by IDA's recognised Certification Bodies.
2. Under COFC-Self-Declaration, equipment suppliers shall conduct self-assessment of the exempted equipment conformity to IDA Standards based on relevant test reports and submit the documents indicated in Annex A-2.
3. Under COFC – Declaration Evaluated by IDA, equipment suppliers shall submit the documents indicated in Annex A-2, including relevant test reports for IDA's evaluation.

SUPPLIER'S DECLARATION OF CONFORMITY FORM
(To be incorporated as online declaration of conformity)

Instructions: This Declaration is to be completed by the local supplier of the telecommunication equipment who holds a Telecommunication Dealer's License issued by IDA. Original copy of the Declaration is to be submitted to IDA.



Where there is an operational group or department responsible for registering the equipment, please specify the details under the name of local supplier.

Supplier's Declaration of Conformity

I/We _____

(Name of Local Supplier)

of _____

(Address of Local Supplier)

hereby declare that the following telecommunication equipment,

(Trade name and Model name)

complies with the following IDA Technical Specifications:

IDA Reference	Issue Date	Title of IDA Technical Specification

I/We declare that this Declaration of Conformity is based on test data or certification produced by:

(Name & Address of Test Laboratory or Certification Body)

I/We declare that all information submitted to IDA is true for the purpose of this Declaration of Conformity, and am/are aware that there are penalties for furnishing false information.

Signature of Authorised Officer

Date of Declaration

Name of Authorised Officer

Position held in Organisation

Telecom Dealer's Licence No.

Additional Information:

Name & Address of Manufacturer

LIST OF TECHNICAL REGULATIONS

Table D.1: Technical Specifications for Line Terminal Equipment

No.	Reference	Eqpt Category Group (for online entry)	Issue Date	Title of Specification
1	IDA TS ADSL	Broadband Access Equipment	Oct 13	Technical Specification for Asymmetric Digital Subscriber Line Modems
2	IDA TS CM	Broadband Access Equipment	Oct 13	Technical Specification for Cable Modems connected to High-Speed Data-Over-Cable Systems
3	IDA TS CCHN ⁶	Broadband Access Equipment	Jul 14	Technical Specification for Coaxial Cable Home Networking
4	IDA TS ISDN	Complex/Multi-Line Equipment	Oct 13	Technical Specification for Terminal Equipment connected to Integrated Services Digital Network
5	IDA TS PLC	Complex/Multi-Line Equipment	Aug 12	Technical Specification for Powerline Communications (PLC) Home Networking
6	IDA TS PSTN	Complex/Multi-Line Equipment	Oct 13	Technical Specification for Terminal Equipment connected to Network Terminating Equipment or the Public Switched Telephone Network for access to voice band services
7	IDA TS DLCN	Exempted Equipment	Oct 13	Technical Specification for Terminal Equipment connected to 2 Mbit/s, 34 Mbit/s and 140 Mbit/s Digital Leased Lines

Note: The requirements to comply with IEC 60950-1 for electrical safety and IEC CISPR 22 for electromagnetic compatibility (IDA EMC framework) have been included in the Technical Specifications as part of the conformity assessment requirements together with the telecommunications part.

Table D.2: Technical Specifications for Radio-Communication Equipment

No.	Reference	Eqpt Category Group (for online entry)	Issue Date	Title of Specification
1	IDA/MDA TS DVB-T2 IRD	SRD/LPD -> (DVB-T2 IRD)	May 14	Technical Specification for Integrated Receiver Decoder (IRD) for use with 2 nd -generation Digital Terrestrial Television broadcasting system (DVB-T2)
2	IDA TS CT-CTS	SRD/LPD -> (PMREQ/LPREQ)	May 11	Technical Specification for Cordless Telephone and Cordless Telecommunication Systems
3	IDA TS SRD	SRD/LPD -> (PMREQ/LPREQ)	Apr 13	Technical Specification for Short Range Devices
4	IDA TS LMR	Land Mobile Radio	Jun 14	Technical Specification for Land Mobile Radio Equipment
5	IDA TS RPG	Land Mobile Radio	May 11	Technical Specification for Radio Pagers (Public Paging Service)
6	IDA TS CMT	Mobile Terminal	Jun 11	Technical Specification Cellular Mobile Terminal
7	IDA TS CBS	Mobile Base Station	Jun 11	Technical Specification for Cellular Base Station and Repeater System
8	IDA TS GMPCS	Mobile Terminal	Aug 11	Technical Specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
9	IDA TS WBA	Wireless Broadband Access (WBA)	Nov 12	Technical Specification for Wireless Broadband Access (WBA) Equipment
10	IDA TS UWB	Ultra-Wideband (UWB) device	May 11	Technical Specification for Ultra Wideband (UWB) Devices

Note: The IDA EMC framework for telecommunication equipment does not apply to radio-communication equipment which is covered by a different set of emission standards established and published in the relevant IDA Technical Specifications.

⁶ Reference shall also be made to the Code of Practice for the Provisioning of Coaxial Cable Home Networking Solutions for compliance with the CCHN Regulatory Framework.

Annex E

ADDENDUM/CORRIGENDUM

Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 8)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
Cover Page	-	The ISO logo has been updated	15 March 2016
3,10, 13, 14	§ 1.1 § 2.1.1 § 3.4.1 Annex A-1 Annex A-2 Appendix to IDA GUIDE EQR	TLS portal link has been updated to https://eservice.ida.gov.sg/tls	
8	§ 2.7	Email address for queries is now : IDA_TLSAPPN@ida.gov.sg	
12	§ 5	A new section on Equipment Registration of Machine-to-Machine ("M2M") Equipment with embedded SIM card has been added	
12	§ 6	Equipment Registration of Coaxial Cable Home Networking ("CCHN") Equipment - A new section has been added on CCHN Regulatory Framework governing the sale and use of CCHN equipment	
15	Annex B Table B.1	The Equipment Type and applicable Technical Specification have been updated as follows: - New addition of Coaxial Cable Home Networking (CCHN) Equipment' and IDA TS CHHN, respectively - Deletion of ATM UNI Equipment and IDA TS BISDN - Merging of ISDN Basic Access, Primary Rate Access and NT1 Equipment and IDA TS ISDN, respectively - New Footnote to refer to Section 5 for additional information on M2M communication device.	
18	Annex D Table D.1	The List of Technical Regulations has been updated as follows: - IDA TS ADSL, Issue 2, October 2013 - IDA TS CM, Issue 2, October 2013 - IDA TS CCHN, Issue 1, July 2014 - IDA TS ISDN, Issue 2, October 2013 - IDA TS PSTN, Issue 2, October 2013 - IDA TS DLCN. Issue 2, October 2013	
18	Annex D Table D.2	The List of Technical Regulations has been updated as follows: - IDA/MDA TS DVB-T2 IRD, Issue 1 Rev 2, May 2014 - IDA TS LMR, Issue 1 Rev 5, June 2014	
-	Appendix to IDA GUIDE EQR	Screenshots of the online equipment registration process has been updated	

Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 7)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
11	§ 3.6	Transfer of Equipment Registration - A new section has been added to provide for the transfer of equipment registration between telecommunication dealer's licensees	25 April 2013
15	Annex B Table B.1	The Equipment Category, Type and applicable Technical Specification have been updated as follows: - 'Integrated Receiver Decoders for use with 2 nd -generation Digital Terrestrial Television broadcasting system (DVB-T2 IRD)'; - 'Basic DVB-T2 IRD' and 'Basic DVB-T2 IRD + Multi-channel Audio'; - 'Part A of IDA/MDA TS DVB-T2 IRD' and 'Part A and Part B of IDA/MDA TS DVB-T2 IRD', respectively	
15	Annex B Table B.1 Note 5	The registration fee for subsequent model in the same family series has been revised to SGD 50. For clarity, the definition of family series models has also been revised	
19	Annex D Table D.2	The List of Technical Regulations has been updated as follows: - IDA/MDA TS DVB-T2 IRD, Issue 1 Rev 1, March 2013 - IDA TS SRD, Issue 1 Rev 7, April 2013	
-	Appendix to IDA GUIDE EQR	Updated screenshots on online equipment registration process	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 6)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
Cover Page	-	The ISO logo has been updated	28 January 2013
3	§ 2.1.2	The URL link to Equipment Registration Framework has been updated (www.ida.gov.sg/EquipmentRegistrationFramework)	
5	§ 2.2.3.4 (b)	Direct URL link to 'local or foreign certification bodies recognised by IDA' has been provided.	
6	§ 2.2.3.5 (b)	Direct URL link to 'testing labs recognised by IDA' has been provided	
14	Annex B Table B.1 Note 9	The URL link to IDA Technical Specifications has been updated (www.ida.gov.sg/Standards)	
17	Annex D Table D.2	The List of Technical Regulations has been updated as follows: - IDA TS WBA, Issue 1 Rev 2, November 2012	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 5)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
14	Annex B Table B.1	The Equipment Type and applicable Technical Specification have been updated as follows: - 'Powerline Communications (PLC) Home Networking' and IDA TS PLC, respectively	27 August 2012
17	Annex D Table D.1	The List of Technical Regulations has been updated as follows: - IDA TS PLC, Issue 1, August 2012	

Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 4)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
10	§ 3.5.1 and § 3.5.2 (a)	Requirements for Modifications of registered telecommunication equipment: <ul style="list-style-type: none"> - Removing the requirement to notify IDA for Class 1 Modifications - Classifying change in Specific Absorption Rate (SAR) value of mobile phone as Class 1 Modification 	4 April 2012
14	Annex B Table B.1	A new note "Standalone radio modules if sold separately will be subject to equipment registration" has been inserted	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 3)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
17	Annex D Table D.2	The List of Technical Regulations has been updated as follows: <ul style="list-style-type: none"> - IDA TS GMPCS, Issue 1 Rev 4, August 2011 	Sep 2011
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 2)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
14	Annex B Table B.1	The Equipment Type and applicable Technical Specification have been updated as follows: <ul style="list-style-type: none"> - '2G/3G/LTE Cellular Base Station and Repeater System' and 'IDA TS CBS', respectively - '2G/3G/LTE Cellular Mobile Terminal' and 'IDA TS CMT', respectively 	Jun 2011
17	Annex D Table D.2	The List of Technical Regulations has been updated as follows: <ul style="list-style-type: none"> - IDA TS LMR, Issue 1 Rev 4, June 2011 - IDA TS CMT, Issue 1, June 2011 which has superseded the former IDA TS GSM-MT and IDA TS 3G-MT - IDA TS CBS, Issue 1, June 2011 which has superseded the former IDA TS GSM-BS and IDA TS 3G-BS 	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2 Rev 1)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
Cover Page	-	Change of IDA's address to Mapletree Business City	1 May 2011
8	§ 2.7	Change of IDA's address and Fax No.	
17	Annex D	Issue Dates of Technical Specifications have been updated	

Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 2)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
9	§ 3.2.2.1 § 3.2.2.2	Updated the procedures for the optional Application for Confirmation of Conformity for exempted equipment	1 Apr 2011
10	§ 3.4.1	Updated the online renewal process	
12	Annex A-1	Updated Equipment Registration Schematic Diagram	
13	Annex A-2	Included a separate Application for Confirmation of Conformity Schematic Diagram	
15	Annex B Table B.2	Included in Table B.2, the additional option for COFC – Self-Declaration	
16	Annex D	Updated Issue Dates of IDA TS SRD and IDA TS LMR	
-	Appendix to IDA GUIDE EQR	Updated screenshots on online equipment registration process	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 1 Rev 3)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
-	-	<p>The Guide has been revised and published as IDA GUIDE EQR Issue 2 to reflect changes in the IDA Equipment Registration Framework:</p> <ul style="list-style-type: none"> - Extending coverage of Enhanced Simplified Equipment Registration (ESER) and Administration of Simplified Equipment Registration (SER) for mobile phones and broadband access equipment - Introducing Application for Confirmation of Conformity for exempted equipment - Introducing upfront payment for equipment registration - Revising the online equipment registration workflow 	15 Apr 2010
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 1 Rev 2)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
11	§ 4	Radio-communication Equipment which requires IDA Licensing	8 Jan 2010
16	Annex D	Issue Dates of Technical Specifications have been updated	
Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 1 Rev 1)			
Page	New provision in IDA Guide EQR	Item Changed	Effective Date
-	-	The approval framework described in this Guide is now extended to allow registrations of Ultra-Wideband (UWB) devices for sale and use:	3 Jan 2008
13	Annex B Table B.1	UWB has been added as a new equipment category.	
14	Annex B Table B.3	Frequency band 433.79 – 434.79 MHz has been revised to 433.05 – 434.79 MHz, in line with ITU-designated ISM band.	
16	Annex D Table D.2	<p>The List of Technical Regulations has been updated as follows:</p> <ul style="list-style-type: none"> - IDA TS UWB, Issue 1, Dec 07 - IDA TS SRD, Issue 1 Rev 3, Jan 08 	

Changes to the Guide for Registration of Telecommunication Equipment (IDA Guide EQR Issue 1)			
New Page	New provision in IDA Guide EQR	Item Changed	Effective Date
3	§ 2.1	The Guide has been revised and published as IDA Guide EQR Issue 1 Rev 1 to reflect changes made to the Equipment Registration Online. Revisions are mainly intended for introducing the enhanced version of the SER scheme (ESER) for short-range/low power devices (SRD/LPD) operating in ISM frequency bands and transmitting not exceeding 100 mW.	23 Jul 2007
3	§ 2.2	This section describes the Equipment Registration for ISM-band SRD/LPD, an enhanced version of the SER scheme.	
6	§ 2.5.1	This section describes the approval of ISM-band SRD/LPD under the enhanced SER.	
6	§ 2.5.2.3	This section highlights the e-Services available for e-Payment and printing of registration notifications.	
7	§ 2.7.2	This section highlights the equipment registration fee payable via e-Payment.	
8	§ 3.1.5	This section highlights the need to comply with the EMC requirements specified in the IEC CISPR 22, where applicable.	
9	§ 3.2.1.1 (b)	This section highlights the availability of online declaration of conformity under the enhanced SER scheme.	
12	Annex A	The Equipment Registration Schematic Diagram has included the route for the enhanced SER for SRD/LPD operating in ISM bands and transmitting not exceeding 100 mW (Route 1a).	
14	Annex B	This annex has included a table defining the types of equipment not requiring registration fees (Table B.3).	
16	Annex D	This annex now provides the Equipment Category Codes against the corresponding Technical Specifications for the purpose of guiding users in their online data entry (see Screenshot 3.5 in the Appendix to the Guide). It also highlights the EMC framework and requirements that have been included in the Technical Specifications as part of the conformity assessment requirements together with the telecommunications part.	
	Appendix to IDA GUIDE EQR	This appendix provides screenshots demonstrating the following: <ul style="list-style-type: none"> - access to the Equipment Registration Online. - Equipment Registration for ISM-band SRD/LPD - Telecommunication Equipment Registration. - e-Payment 	

Changes to the Guide for Approval of Telecommunication Equipment (IDA Approval Guide)			
New Page	New provision in IDA Guide EQR	Item Changed	Effective Date
—	—	The “Guide for Approval of Telecommunication Equipment” (IDA Approval Guide, 15 Mar 04) has been superseded by the “Guide for Registration of Telecommunication Equipment” (IDA Guide EQR Issue 1).	21 Jul 2005
13	Annex A.4	General Approval (GAP) scheme for single-line analogue equipment is discontinued. Suppliers may sell such equipment without the requirement of equipment registration or opt to register such equipment using the SER or GER scheme.	
6	§ 2.2	Simplified Equipment Registration (SER) scheme is maintained and extended to cover (a) GSM phones, (b) DECT and PHS digital cordless phones and systems, (c) GMPCS terminals, and (d) ADSL and cable modems. Registration fee remains at SGD 100.	
6	§ 2.3	Type Approval (TAP) scheme is re-designated as General Equipment Registration (GER) with “Declaration evaluated by IDA”. Fees are restructured to SGD 350/500.	
6	§ 2.3	MRA Equipment Registration (MER) scheme is maintained and renamed as GER with “Declaration certified by an IDA recognised body”. Registration fee remains at SGD 100.	
—	—	Individual approval is discontinued for single items of equipment brought in by individuals from overseas for personal use. These individuals shall carry the personal responsibility for ensuring that the equipment conforms to the applicable IDA Technical Specifications.	