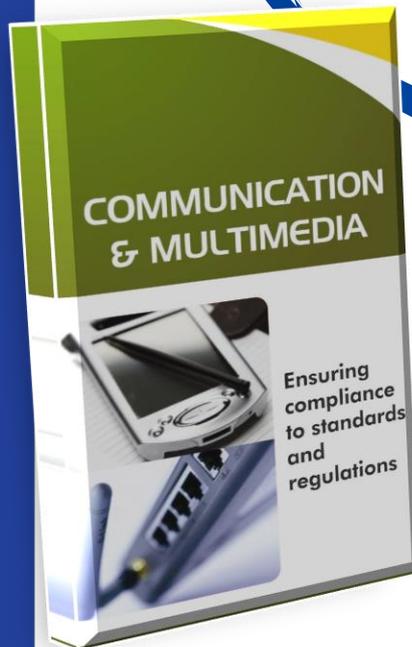


Regulatory Requirement of Importing/Manufacturing of Mobile phone and Adapter in Malaysia

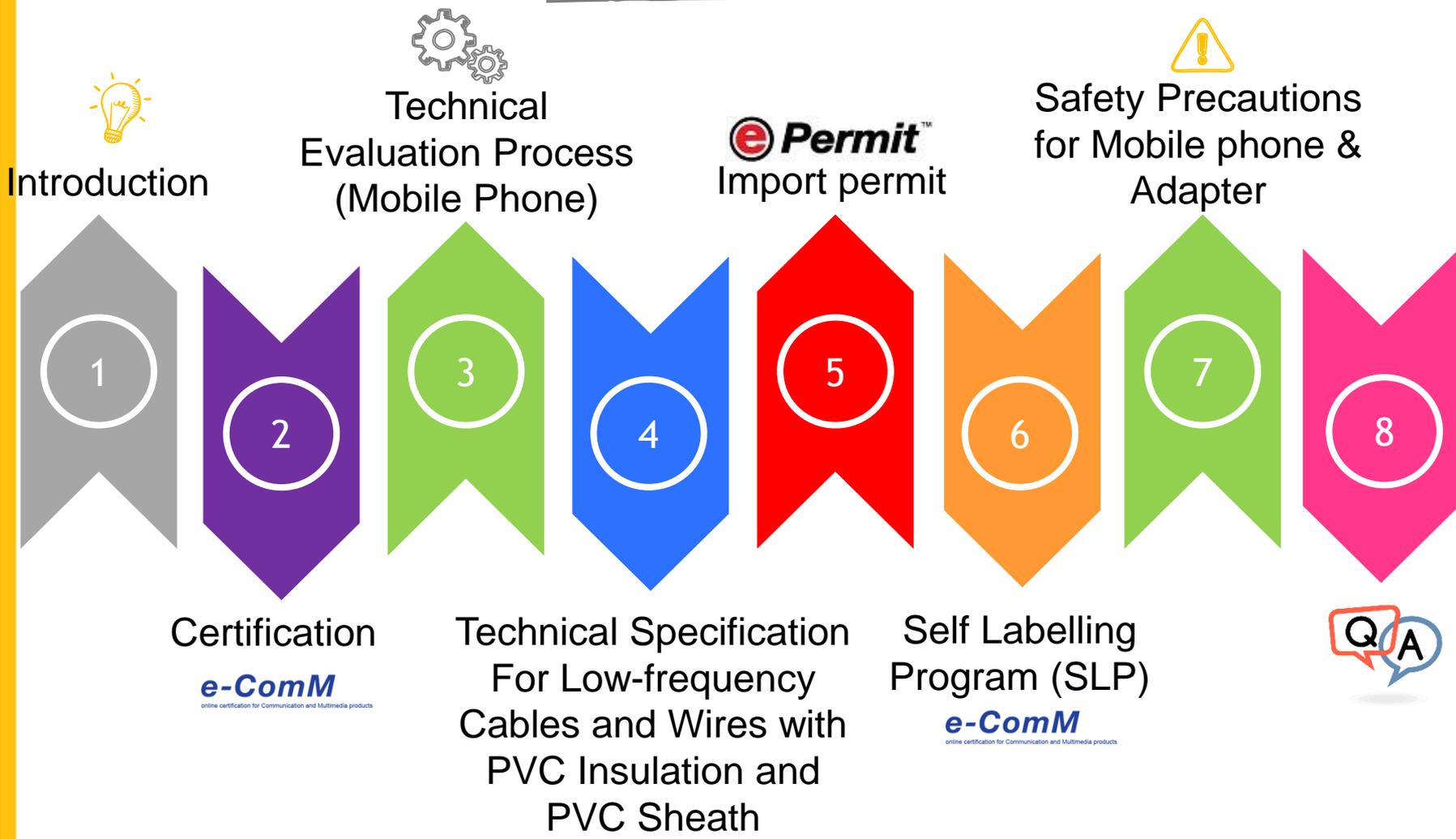


Tuesday, 11 October 2016
Grand Blue Wave Hotel

Workshop on Guidelines and Techniques for
Identification of Substandard Cables & Related
Products for Regulators and Enforcement Bodies

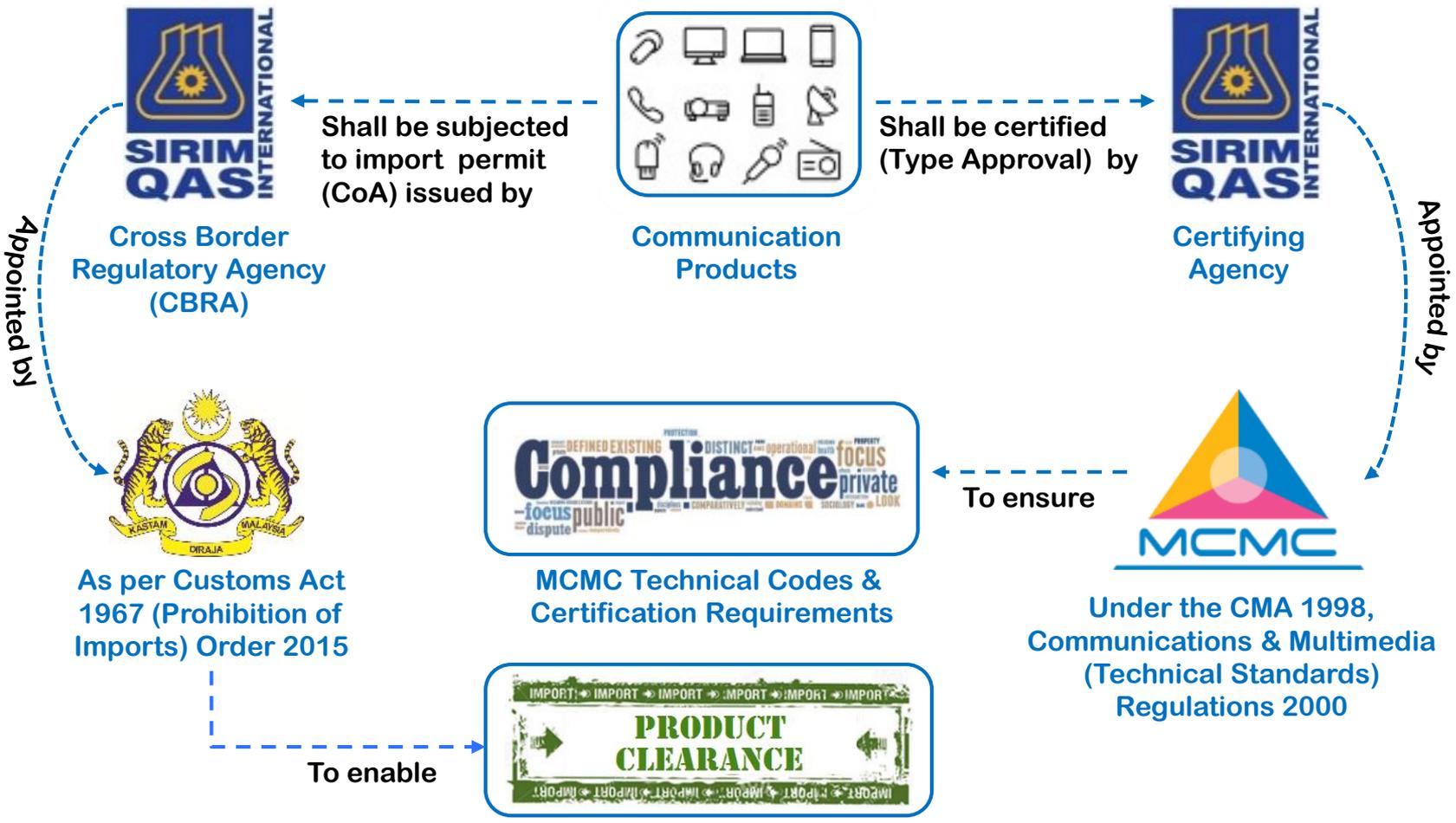


AGENDA





LAWS & REGULATIONS





WHY AN EQUIPMENT MUST BE CERTIFIED?

TO ENSURE
COMPLIANCE
WITH STANDARDS

PUBLIC
SAFETY

AVOID
INTERFERENCE

PROTECTING
CONSUMER



NETWORK INTER-
OPERABILITY

QUALITY
ASSURANCE





LEGAL FRAMEWORK

Legislations	Provisions	Penalties
CMA 1998	Hindering interoperability an offence [s.182]	RM500K / 5 years / both
	Compromising public safety an offence [s.183]	RM500K / 5 years / both
	Emission from non-standard equipment or device [s.238]	RM50K / 1 year / both
	Unlawful use, possession or supply of non-standard equipment or device [s.239]	RM100K / 2 years / both
C & M (Technical Standards) Reg. 2000	Communications equipment to be certified [r.14]	RM100K / 6 months / both
	Prohibitions of design or operate communications equipment [r.15]	RM300K / 3 years / both
	Prohibitions of use, sale & in possession of communications equipment [r.16]	RM100K / 6 months / both
	Certified communications equipment shall bear a certification mark or label [r. 22(a)]	RM100K / 6 months / both
Class Assignments	Only certified devices shall be used or operated under the Class Assignments [Conditions 4(1)(h)]	RM500K / 5 years / both



APPOINTMENT & ACCREDITATION

No. Surat/No. : **CE-005/2013** No. Sijil/Certificate No. : **CA-0016**



Suruhanjaya Komunikasi dan Multimedia Malaysia
Malaysian Communications and Multimedia Commission

PERAKUAN PENDAFTARAN SEBAGAI AGENSI PEMERAKUAN
CERTIFICATE OF REGISTRATION AS A CERTIFYING AGENCY

Adalah dengan ini diisahkan bahawa
This is to certify that

SIRIM QAS INTERNATIONAL SDN BHD

didaftarkan sebagai Agensi Pemerakuan menurut Peraturan 11 Peraturan-peraturan Komunikasi dan Multimedia (Standard Teknik) 2008
is registered as a certifying agency pursuant to regulation 11 of the Communications and Multimedia (Technical Standard) Regulations 2008

dari / from 3 September 2013 hingga / to 3 September 2018

bagi kategori yang berikut
for the following categories

1. Keselamatan Elektrik (Electrical Safety);
2. Kekebalan dan Kerasulan Elektromagnetik (Electromagnetic Immunity and Compatibility);
3. Kesalingboleh-kendalian Rangkaian (Network Interoperability);
4. Wayarless (Wireless);
5. Radar Gelombang Ringan (Light-wave Apparatus); dan (and)
6. Kabel dan Aksesori (Cable and Accessories).

Pendaftaran ini adalah terikat kepada syarat-syarat agensi pemerakuan berdaftar sebagaimana yang dinyatakan dalam lampiran 1/CE-003, pada surat peralihan pendaftaran (This registration is subject to conditions for registered certifying agency as stated in the attachment 1/CE-003 of the appointment letter).

3 September 2013
Tarikh / Date



DATU' MOHAMED SHARIL YARNIZI
Pengerusi / Chairman



MEMBER OF MULTILATERAL
IAF
RECOGNITION ARRANGEMENT



STANDARDS MALAYSIA
ACCREDITED CERTIFICATION BODY

MS ISO/IEC Guide 65:2000

B 0264

Certificate of Accreditation

Accreditation No.: **PC 05102004 CB 01** Valid till: **04 October 2016**
Renewal 3, 1 October 2013

This is to certify that

SIRIM QAS INTERNATIONAL SDN. BHD.
SHAH ALAM, MALAYSIA

has been accredited as a Product Certification Body for the scope of accreditation detailed in the *SCHEDULE* attached, subject to the terms and conditions governing the Scheme for Accreditation of Certification Bodies.





(FADIAH BAHARIN)
Director General
Department of Standards Malaysia

Issue Date: 1 October 2013

Issuance of this certificate is governed by Section 16 Subsection (2) and (3) of Standards of Malaysia Act 1996, (Act 548)

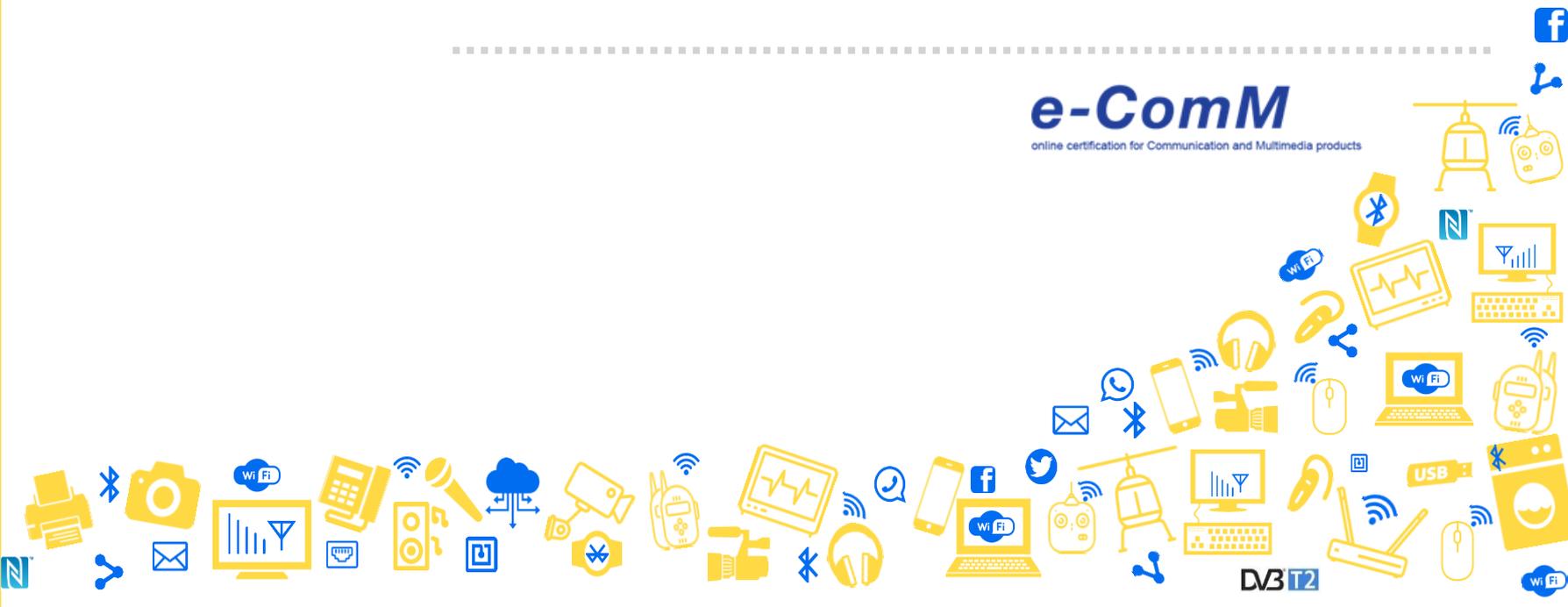


2

Certification

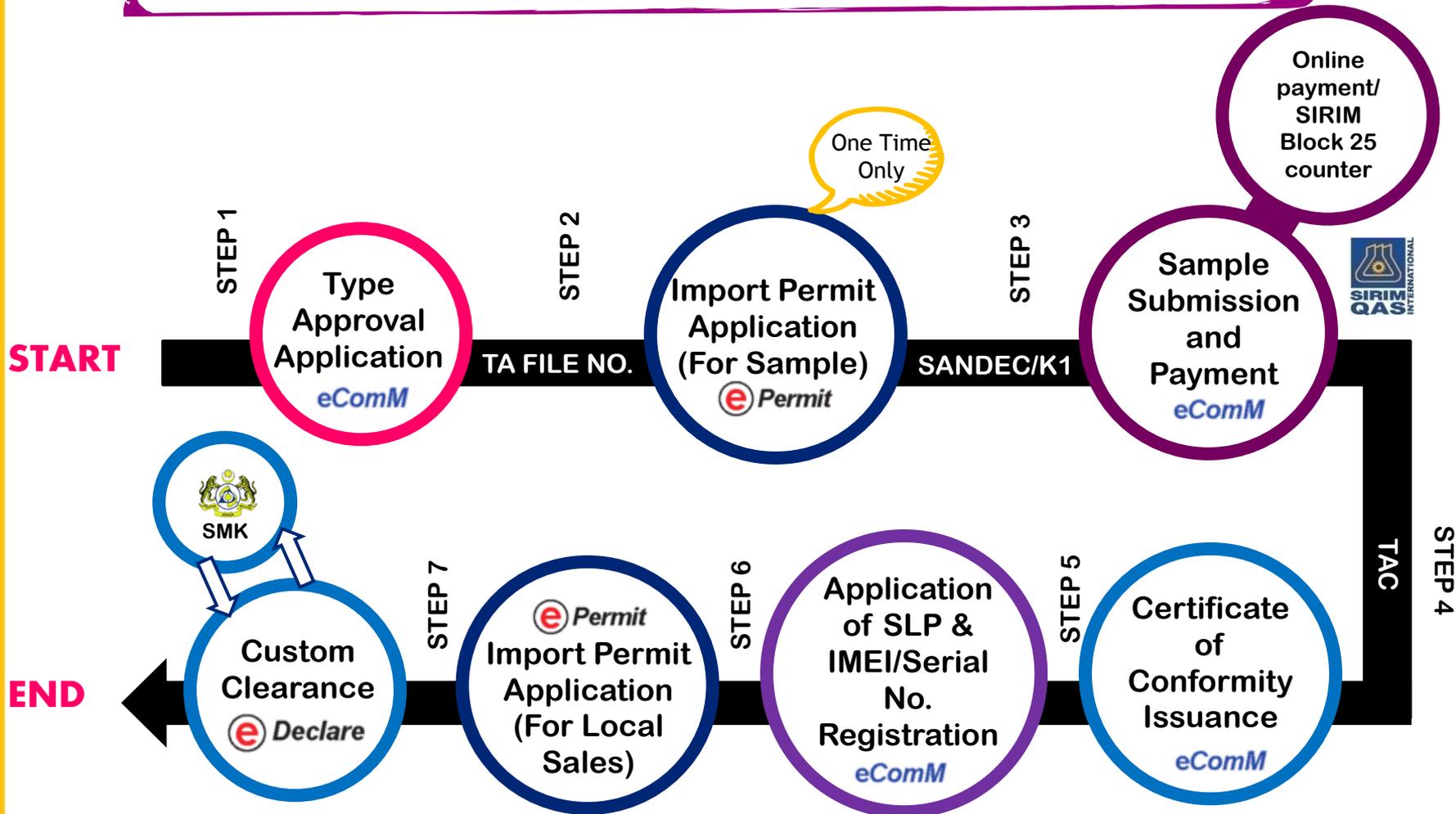
e-ComM

online certification for Communication and Multimedia products





OVERALL FRAMEWORK FOR CERTIFICATION





CERTIFICATION PROCESS FLOW



- Submission of Sample or Inspection at Production Site
- Determination of Requirements

- Test Report from Accredited Lab
- Sample Verification
- Interoperability / Connectivity / Functionality
- Certification Requirements / Terms & Conditions For TA
- Spectrum Plan, Class and Apparatus Assignment, Technical Code

- Review Certification Report

- Based on Evaluations
- Generate Type Approval Code
- Certificate of Conformity

- Self Labelling Program
- Import Permit / CoA



WHAT ARE COVERED?

All pure communication apparatus or equipment needs to be certified under **CMA 1998** and **Communication and Multimedia (Technical Standards) Regulations 2000 [Reg 14]**.



This also include **hybrid equipment** which is apparatus or equipment **integrated with communications module** for connecting to public communications network or for radiocommunications utilizing band up to 420 THz.

It covers a range of apparatus or equipment such as, but not exhausted to, electrical appliances, computer products, medical devices and toys.





CERTIFICATION MODULE



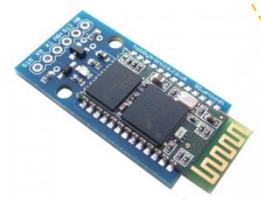
Wireless LAN

Authorized frequencies:
 2400 MHz - 2500 MHz
 5150 MHz - 5350 MHz
 5470 MHz - 5650 MHz
 5725 MHz - 5875 MHz



DVB T2

Authorized frequency:
 UHF 470 – 860 MHz



Bluetooth™

Authorized frequency:
 2400 MHz - 2500 MHz

Telephony: Fax Card



Technical Code:
 SKMM MTSFB TC
 T001:2013
 CETS-T/SPC/003



Authorized frequency:
 919 MHz – 923 MHz
 13.55 MHz – 13.56 MHz



Authorized frequency:
 13.56 MHz



Wireless WAN

Authorized frequencies:
 E-GSM: 900 MHz
 GSM: 1800 MHz
 3G/UMTS: 900 MHz
 3G/UMTS Sub-Band E: 2100 MHz
 LTE Band 3: 1800 MHz
 LTE Band 5: 850 MHz
 LTE Band 7: 2600 MHz

Authorized frequencies:
 LTE Band 1: 2100 MHz
 LTE Band 8: 900 MHz
 LTE Band 38: 2600 MHz
 LTE Band 40: 2300 MHz

Note: The frequencies listed shall only serve as a guide. The complete list of authorized frequencies shall be referred to the MCMC Technical Codes/Class Assignment/Apparatus Assignment/Spectrum Plan



CERTIFICATION METHOD



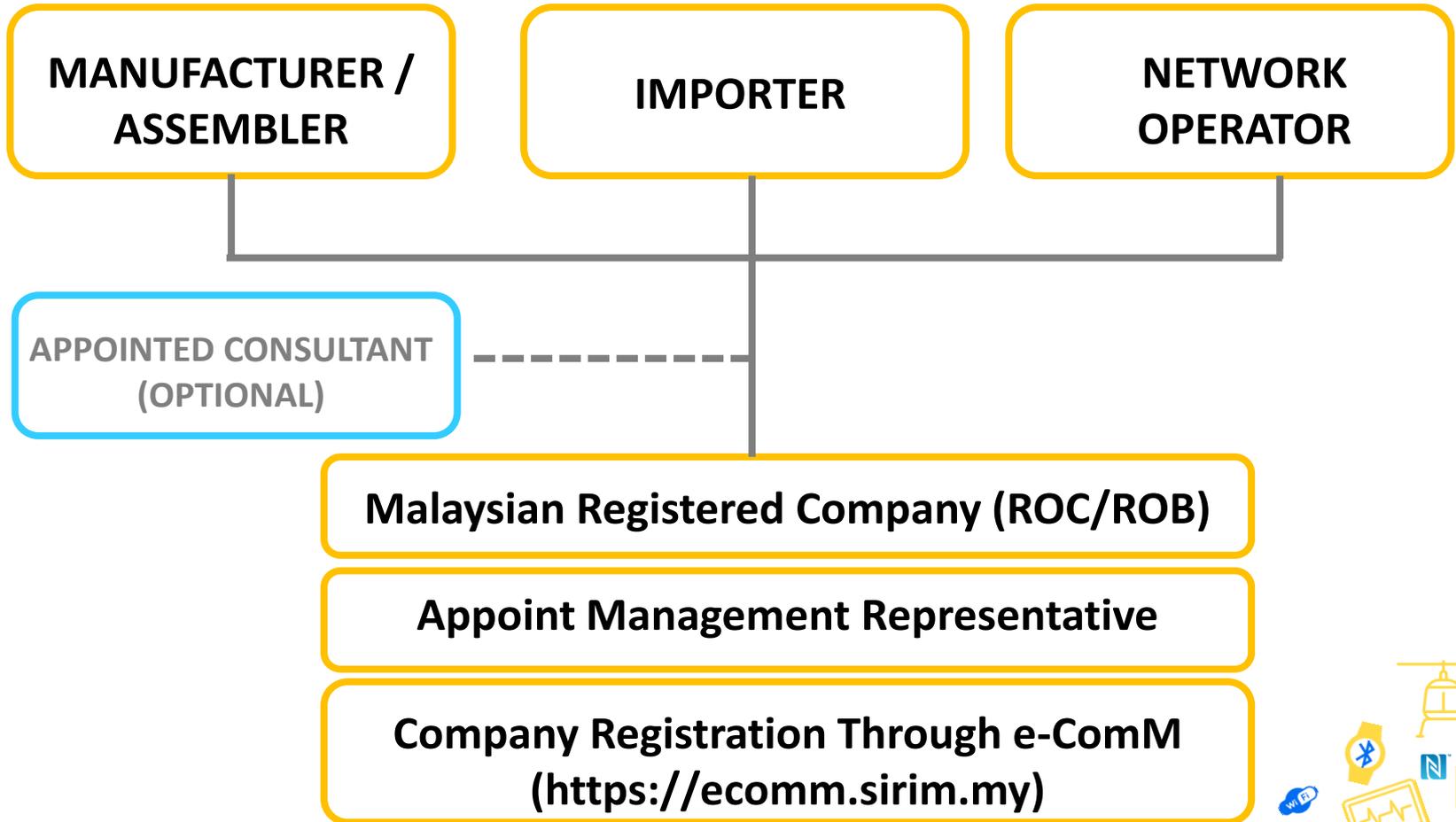
e-ComM

online certification for Communication and Multimedia products



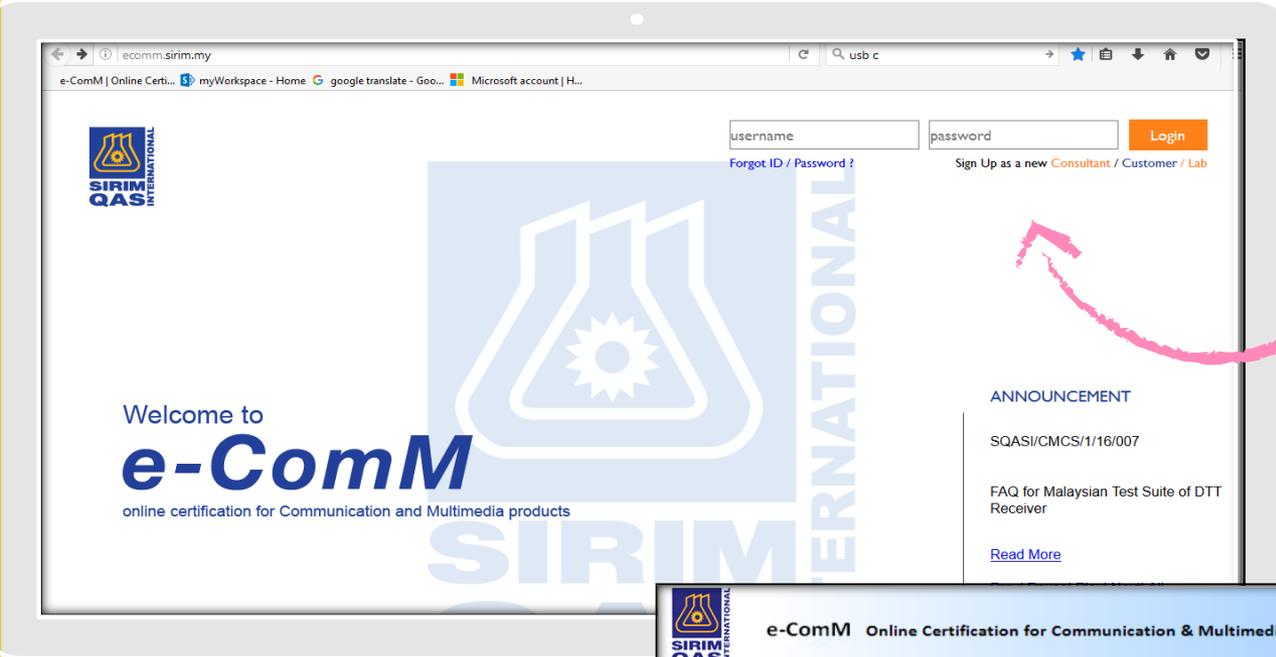


WHO CAN APPLY FOR TYPE APPROVAL?





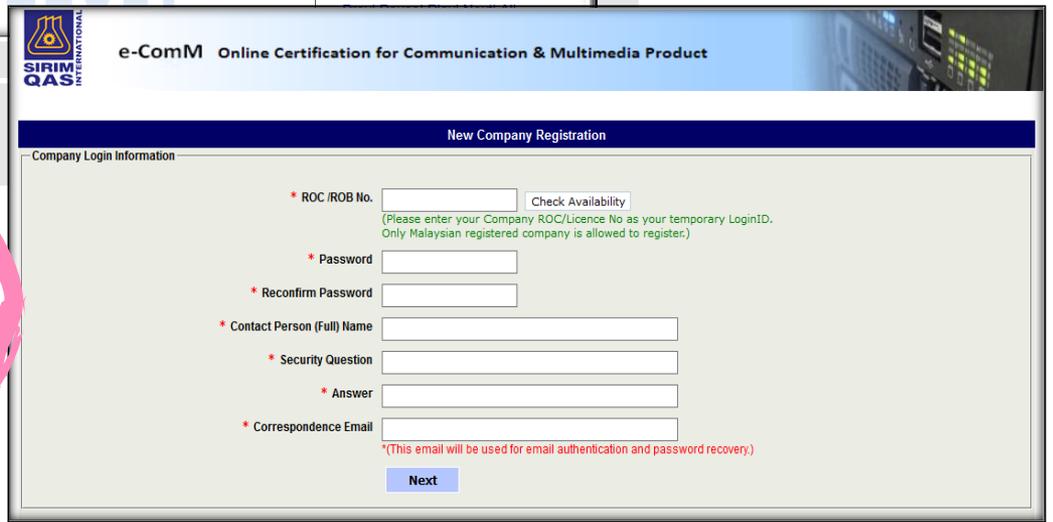
e-Comm's ONLINE REGISTRATION



Sign up as new user/consultant at our online webpage : <http://ecomm.sirim.my/>

Mandatory documents:

1. Form 9/13 (ROB/ROC)
2. Authentication form – template retrieve from e-Comm.



The screenshot shows the 'New Company Registration' form. It includes the following fields and instructions:

- ROC/ROB No.**: Input field with a 'Check Availability' button. Instruction: '(Please enter your Company ROC/Licence No as your temporary LoginID. Only Malaysian registered company is allowed to register.)'
- Password**: Input field
- Reconfirm Password**: Input field
- Contact Person (Full Name)**: Input field
- Security Question**: Input field
- Answer**: Input field
- Correspondence Email**: Input field. Instruction: '(This email will be used for email authentication and password recovery.)'

A 'Next' button is located at the bottom of the form.



TYPES OF EQUIPMENT

COMMUNICATION EQUIPMENT

CUSTOMER EQUIPMENT

* HYBRID

NETWORK FACILITIES

ACCESS DEVICE FOR CONNECTION TO PUBLIC COMMUNICATIONS NETWORK

WIRED



WIRELESS





HYBRID PRODUCTS CATEGORY



Electrical & Electronics
(13 items)

Medical Devices
(4 items)

Remote Controlled Toys & Games
(2 items)

Computers & others
(9 items)

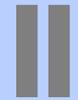
+

+

+

+

Communications Modules



HYBRID PRODUCTS



HOW DO WE CERTIFY?

**Product Type:
Mobile Phone**



Adaptor



GSM 900/1800

**SKMM WTS GSM-MT
Rev.1.01:2007**

3G/LTE

**SKMM WTS IMT-MT
Rev.1.01:2007**

**WiFi
802.11 a/b/g/n/ac**

**MCMC MTSFB TC
T007:2014**

Bluetooth

Safety

EMC

SAR

Pre-approved by relevant regulatory (Energy Commission)



REQUIREMENTS

No.	Scope	Requirement	Certification Evaluation	Standard
i	Power Supply Requirement	Pre-approved by relevant regulatory body	Recognize CB safety mark or evaluate test report.	MS IEC 60950-1 /equivalent
	- Adapter for IT Equipment (up to 20V)			MS 140 / equivalent
	- Power Supply Cord			13A fused plug: BS 1363 Max 2.5A Flat Non-rewirable 2-pole plug: MS1578 / BS EN 50075,
	- Main Plug			
ii	Radio Frequency	Standard and scope cited	Evaluate test report	GSM: ETSI EN 301 511 3G/LTE: ETSI EN 301 908-1 ,-2, -13
iii	EMC	Radiated and Conducted Emissions		ETSI EN 301 489-1
iv	Safety	Standard and scope cited		MS IEC 60950-1
v	Specific Absorption Rate (SAR)	Standard and scope cited		EN 50360
				EN 62209-1

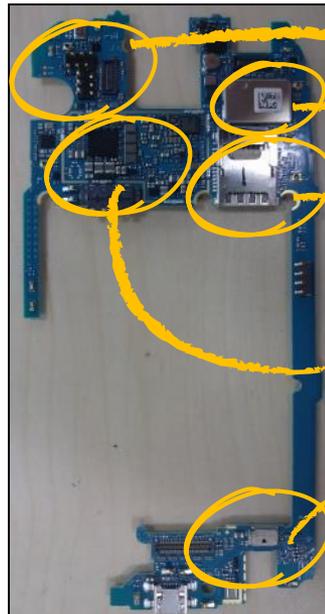
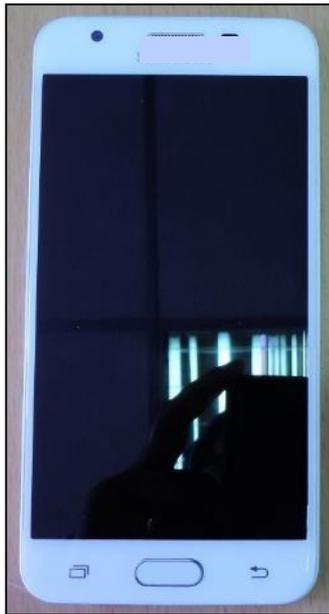


ACCEPTANCE OF TEST REPORT

- ✓ Test report's result shall comply with all standards stated in MCMC's Technical Codes (TC). These TCs are publicly available at <http://www.mcmc.gov.my/Legal/Register/CMA-Registers.aspx>
- ✓ Test report shall be issued by laboratory accredited by National Accreditation Body (NAB) such as Standards Malaysia (SAMM), Taiwan Accreditation Foundation (TAF), Korea Laboratory Accreditation Service (KOLAS), China National Accreditation Service (CNAS), United Kingdom Accreditation Service (UKAS) and American Association for Laboratory Accreditation (A2LA).
- ✓ Acceptance of test report is not more than 5 years from test report's issuance date.
- ✓ Test report format shall follow the guideline as stated in ISO/IEC 17025 : 2015 (General requirements for the competence of testing and calibration laboratories)



SAMPLE VERIFICATION



Bluetooth module

GSM/3G/LTE Module

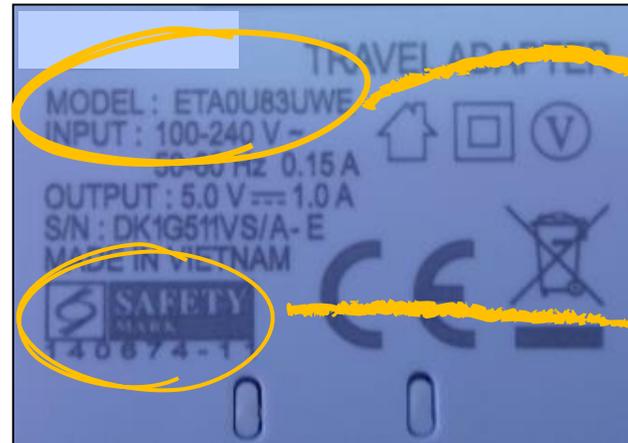
SIM card slot

WLAN(802.11/a/b/g/n/ac Module

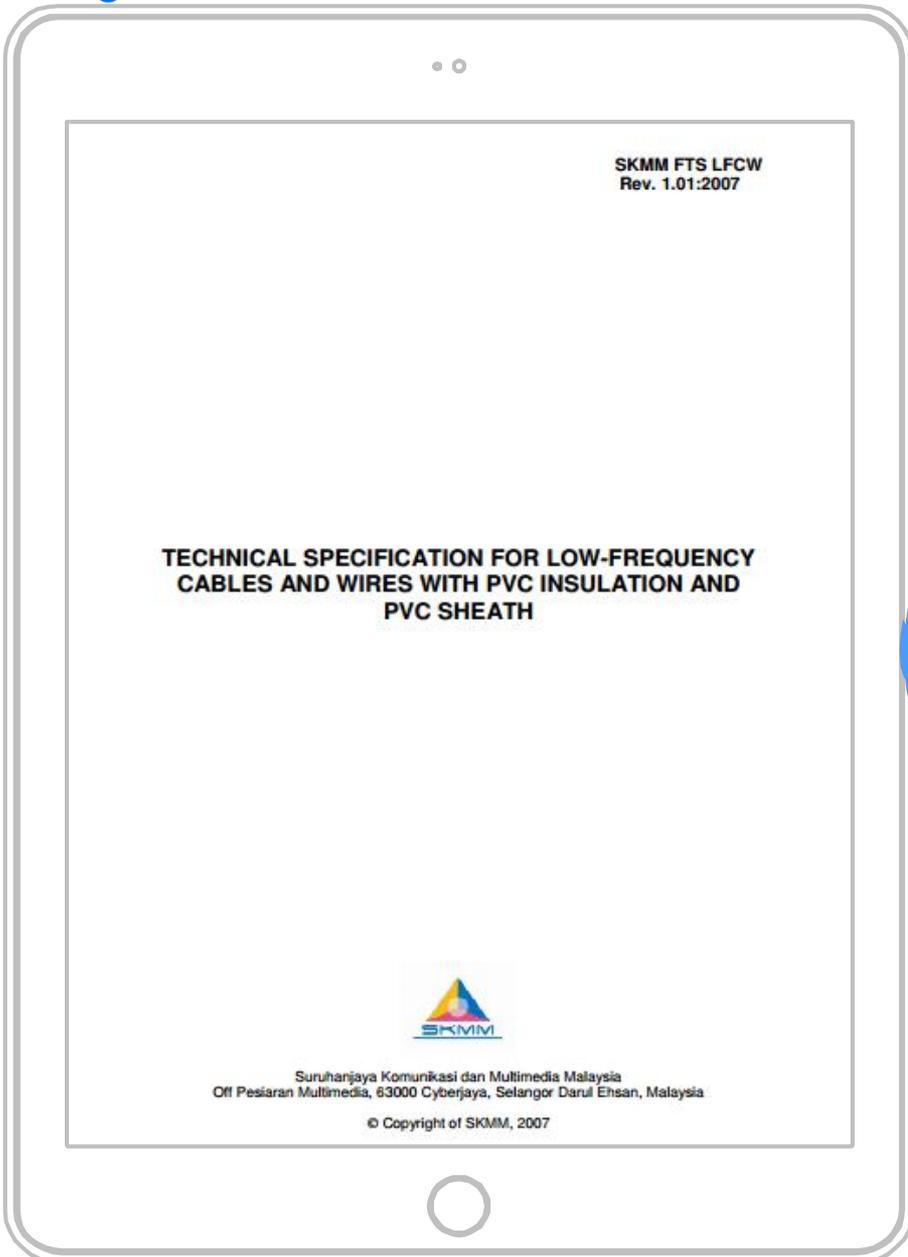
NFC module

Mobile phones:

- Connectivity test
- IMEI verification
- FM Radio Frequency verification



Verification on safety
CB mark & model



**SKMM FTS LFCW Rev.
1.01:2007:
TECHNICAL SPECIFICATION FOR
LOW-FREQUENCY CABLES AND
WIRES WITH PVC INSULATION
AND PVC SHEATH**



SCOPE

This Technical Specification cover the requirements for:

- a) **Cable for inside installations, intended for the interconnection of the transmission equipment, telephone and telegraph equipment, and equipment for data processing.**
- b) **Cable for internal wiring of telecommunication equipment, and industrial and consumer electronic equipment.**



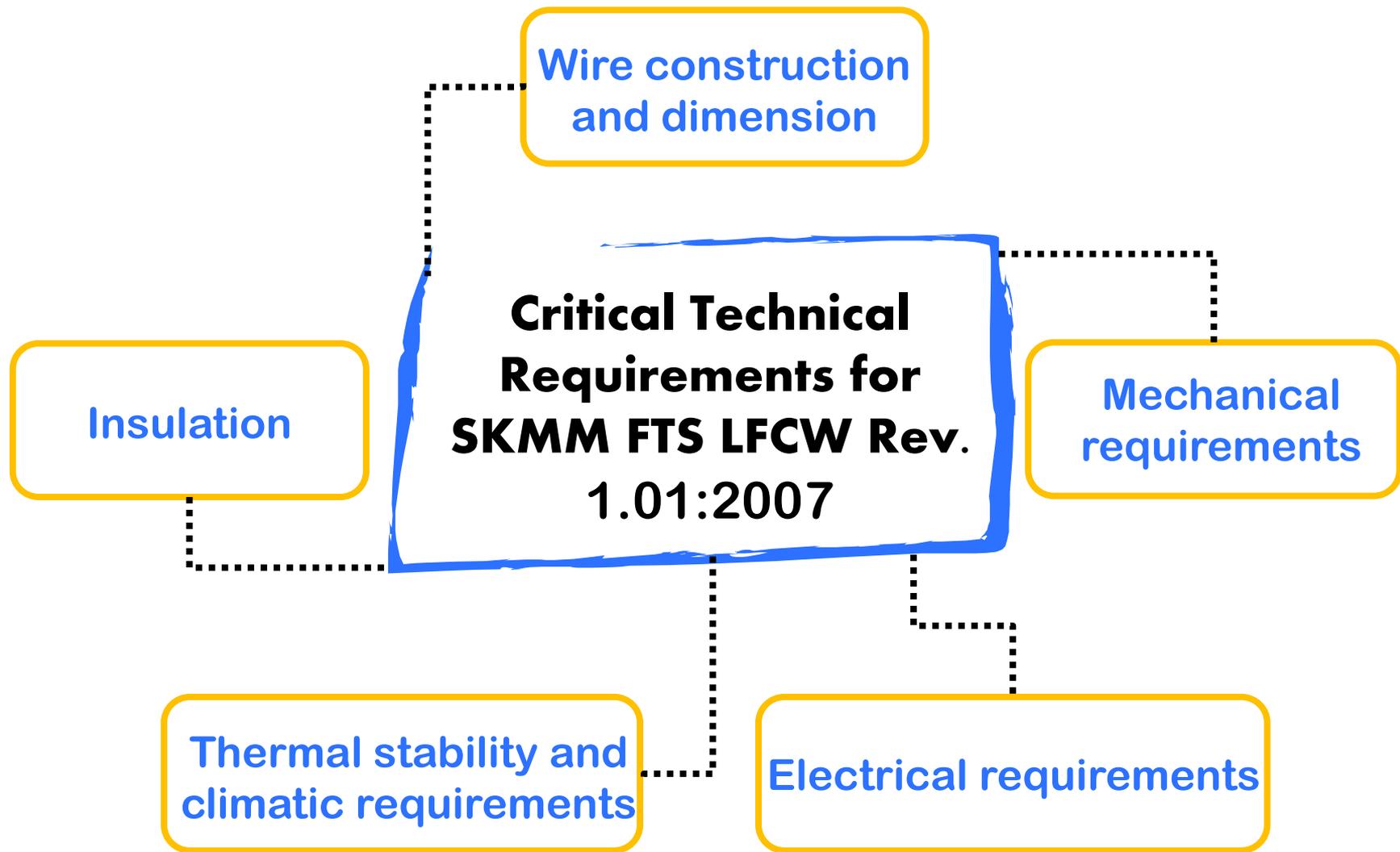


SKMM FTS LFCW Rev.1.01:2007

Section A :
**Technical requirements
for interconnection
cables**

Section B :
**Technical
requirements for
internal wiring**

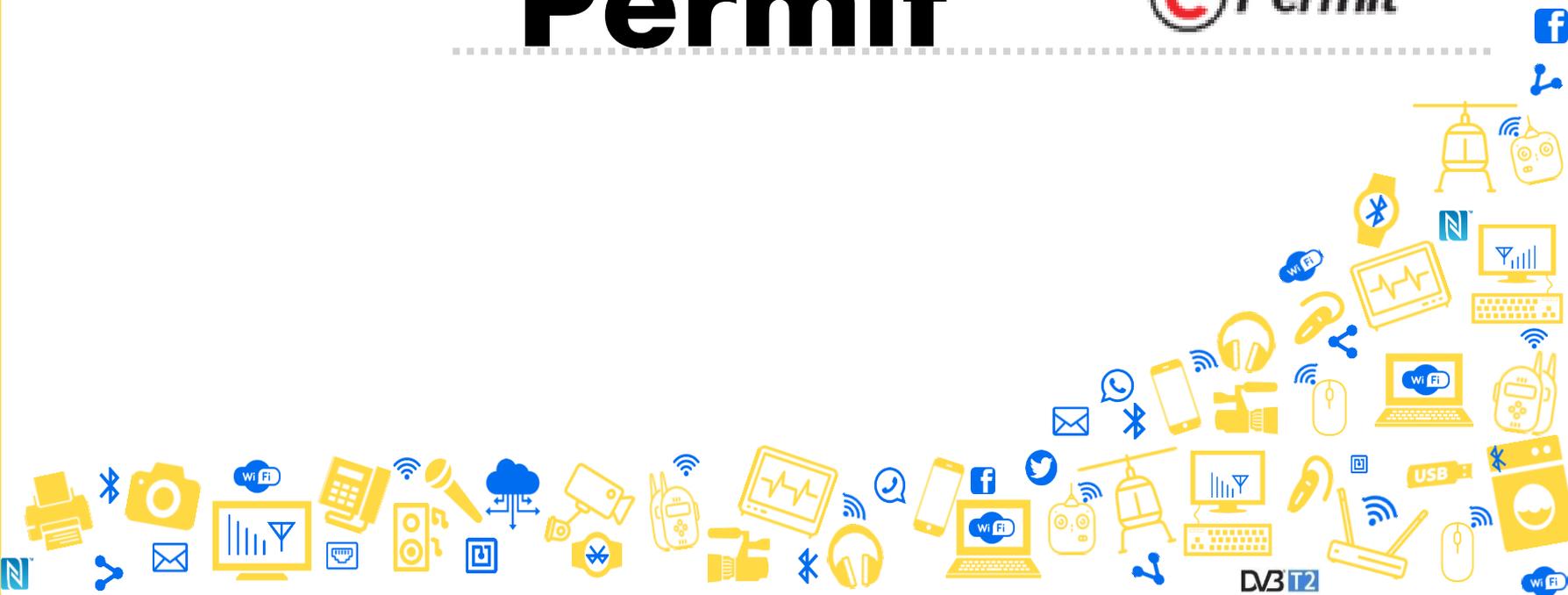
Section C :
**Technical requirements
for internal wiring for
general purpose**





5

Import Permit

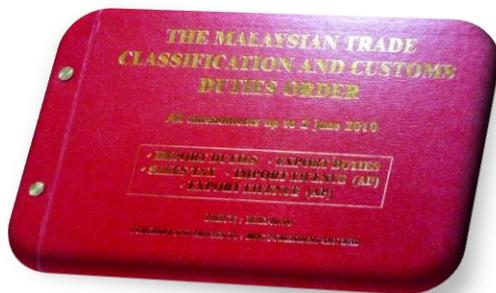




IMPORT PERMIT REQUIREMENTS

ALL radio communications apparatus capable of being used for telecommunication in the frequency band **lower than 420 THz** or their motherboards and apparatus or equipment to be attached or connected to Public Network or System imported into Malaysia **must be declared to Royal Customs**, irrespective whether they are dutiable or not, inclusive of equipment for licensed network.

Importation of used or reconditioned products for local sales is prohibited.





Appointed by



The Royal Customs of
Malaysia

Manage the processing and approval of import permit/CoA for communications equipment. The issuance of import permit/CoA is subjected to compliance to CMA 1998.

MANNER OF IMPORT

Subject to
Compliance
Regulated by



The importation of hybrid products shall be accompanied by an import permit issued by SIRIM as a Cross Border Regulatory Agency (CBRA) and CoA from other relevant CBRAs and shall comply with certification requirement in accordance to any other relevant act or regulations, its subsidiary legislations, statutory requirements and established rule and procedures.



6

Self Labelling Program (SLP)

e-ComM

online certification for Communication and Multimedia products



SLP

SELF LABELLING PROGRAM FOR COMMUNICATION & MULTIMEDIA, AND HYBRID PRODUCTS

MCMC CERTIFICATION MARK



For specific Type Approval owner

Example:

SLP ID: HIDF15000001

Certificate Holder/Importer:
SONY EMCS (MALAYSIA)
SDN. BHD.



ABC	CID-Common ID or HID-Certificate Holder ID
D	Manufacturer: F-Foreign, M-Local
16	Year 2016
345678	Running Number



For specific Principal/
Manufacturer, may be used
by multiple Type Approval
owners

Example:

SLP ID: CIDF15000007

Principal (Brand Owner):
APPLE INC.

Certificate Holder/Importer:
APPLE MALAYSIA SDN. BHD.,
ANSARCOMP (M) SDN. BHD.,
UPS SCS (MALAYSIA) SDN.
BHD.

SLP



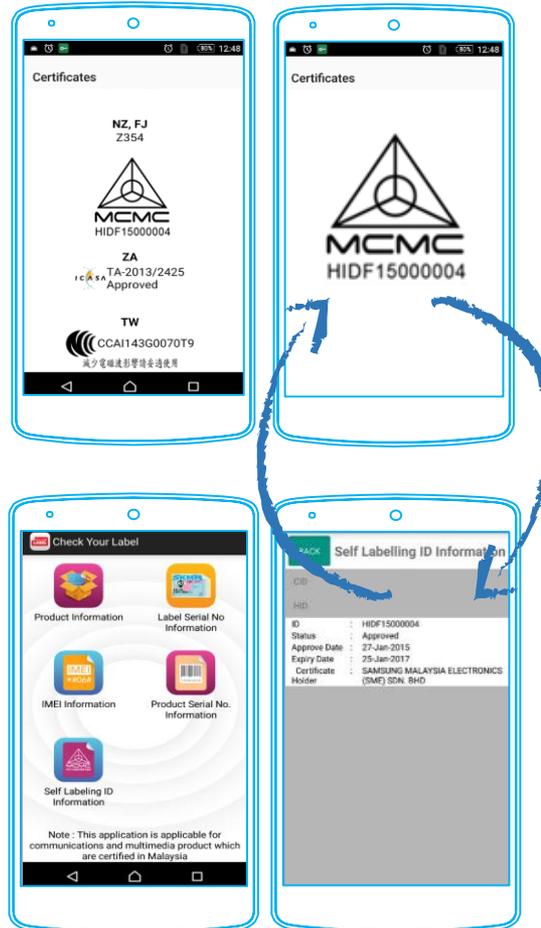
SELF LABELLING PROGRAM FOR COMMUNICATION & MULTIMEDIA, AND HYBRID PRODUCTS

E-Labeling

Surface Labelling

iOS:
 Settings >> General >> About device >> Legal information >> Regulatory
 *Varies by mobile phone brands

Android:
 Settings >> About phone >> Certificates >>
 *Varies by mobile phone brands



On Product:
 >>The back / bottom of the equipment;
 >>Warranty card; or
 >>Manual

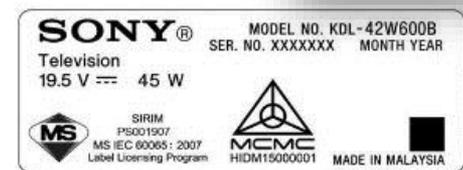


CHECK YOUR LABEL

Website:
<https://ecomm.sirim.my>

Mobile Apps:
Check Your Label

Available on the App Store | Available on the Android Market





SAFETY PRECAUTIONS FOR MOBILE PHONE

1. KNOW YOUR LABEL

Conventional Label



Serial Number →

- Conventional label on communication product before 1 June 2015
- In the form of a hologram sticker.

New label



← MCMC Logo

SLP ID of
Supplier /
Manufacturer ←

- New label for communication product started from 1 June 2015 onwards.
- In the form of surface labelling (sticker, engraved or embossed on product) or e-labelling.



SAFETY PRECAUTIONS FOR MOBILE PHONE

2. VALIDATE YOUR LABEL

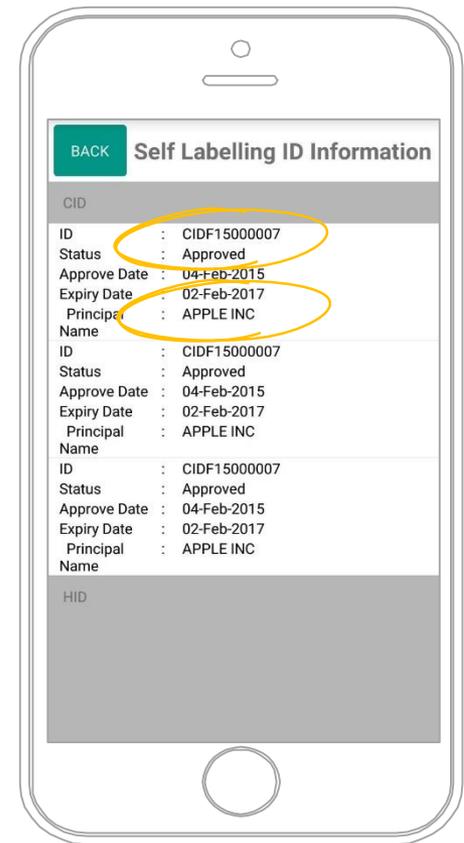


E-Labeling

Cross Refer Information

Through CYL

CHECK YOUR LABEL





SAFETY PRECAUTIONS FOR MOBILE PHONE

3. CONFIRM YOUR LABEL

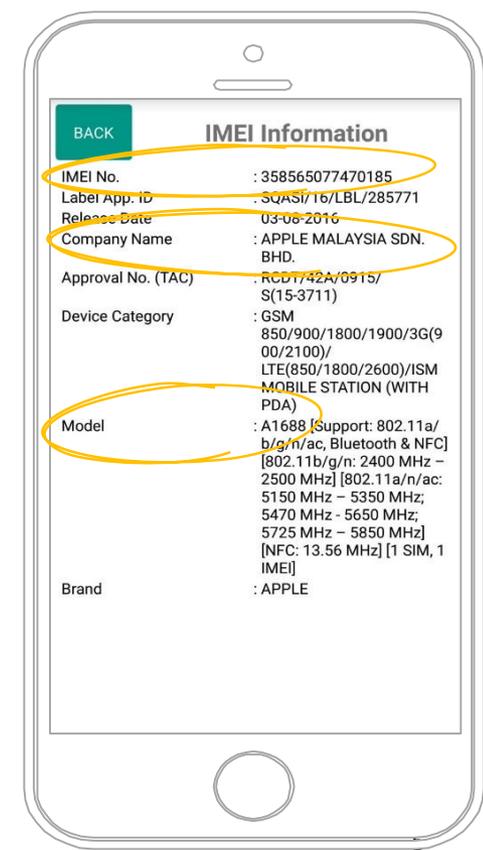


E-Labeling

Cross Refer Information

Through CYL

Surface Labelling





SAFETY PRECAUTIONS FOR ADAPTER



**HOW DO I KNOW
IF A ADAPTER
SOLD IN
MALAYSIA IS
CERTIFIED** ?

An adapter or charger that is imported on its own is subjected to Suruhanjaya Tenaga regulations hence a certified charger shall bear SIRIM-ST label.



SAFETY PRECAUTIONS FOR ADAPTER



**IS THE
ADAPTER/CHARGER
THAT COMES WITH
MY MOBILE PHONE
OR LAPTOP
CERTIFIED TOO?**

For adapter/charger that comes with any communication or multimedia device, these adapter/chargers shall be verified and evaluated during the certification process of the main device. Adherence to safety requirement for the adapter/charger is one of the pre-requisite for approval of the main device.

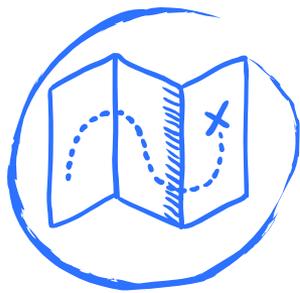
As such, a certified communication or multimedia device, including its adapter/charger, if any, also conform to Technical Codes. This certified main device shall be labelled with MCMC SLP Certification Mark.



EMAIL US

Communication & Multimedia Certification Section (CMCS)

- Counter Service : cmcscounter@sirim.my
- E-Application : cmcsapp@sirim.my
- SIRIM Label/SLP : sirimlabel@sirim.my
- e-PERMIT : sirimepermit@sirim.my
- Technical Support : cmcstech@sirim.my
- Website : www.sirim-qas.com.my
- Online Application : <https://ecomm.sirim.my>



Maps

