

Conformity and Interoperability regimes of Telecommunication/ICT equipment in the Philippines

**Homologation of telecommunication equipment experience in the
Philippines by: Michelle G. Miguel**

Contact Number: (+63) 02 9244006

*Address: NTC Bldg. BIR, Road East, Triangle Diliman Quezon City,
Philippines*

Legal Framework of the C&I Regime for telecommunication/ICT equipment in the Philippines

RA 7925 - AN ACT TO PROMOTE AND GOVERN THE DEVELOPMENT OF PHILIPPINE TELECOMMUNICATIONS AND THE DELIVERY OF PUBLIC TELECOMMUNICATIONS SERVICES.

Section 4 - *Declaration of National Policy.*

Telecommunications is essential to the economic development, integrity and security of the Philippines, and as such shall be developed and administered as to safeguard, enrich and strengthen the economic, cultural, social and political fabric of the Philippines.

Section 5. *Responsibilities of the National Telecommunications Commission.*

The National Telecommunications Commission (Commission) shall be the principal administrator of this Act and as such shall take the necessary measures to implement the policies and objectives set forth in this Act.

item b.

Ensure quality, safety, reliability, security, ***compatibility and inter-operability*** of telecommunications facilities and services in conformity with standards and specifications set by international radio and telecommunications organizations to which the Philippines is a signatory.

NTC MC No.: 02-01-2001 – Revised Customer Premises Equipment Interface Standards and procedure for Type Approval and Type Acceptance.

Section 1.a – Type Approval is a process by which a CPE is evaluated for conformance to national CPE interface standards as recommended by ITU-T and/or ITU-R. A CPE is tested and evaluated by undergoing laboratory tests to determine its operational compatibility with the public telecommunications network and to guarantee that when connected will not cause harm and will assure adequate for:

1. the end-users, regarding their lives, health and properties;
2. the public telecommunication networks and employees, from malfunction and damage, and
3. the users of the frequency spectrum, from interference and spurious emissions

Section 5.5 – Equipment that has been type approved/accepted must be marked by a tamper proof label as described below.



Type Approved
No.: ESD-CPE-xxxxxxx



Type Accepted
No.: ESD-RCE-xxxxxxxC



Type Approved
No.: ESD-GEC-xxxxxxx

NTC Office Order No.: 65-06-2009 - Simplified procedures on securing Type Approval/Acceptance Certificates and in the issuance of Equipment Conformity in the Equipment Standards Division.

NTC Citizen's Charter

Technical Requirements:

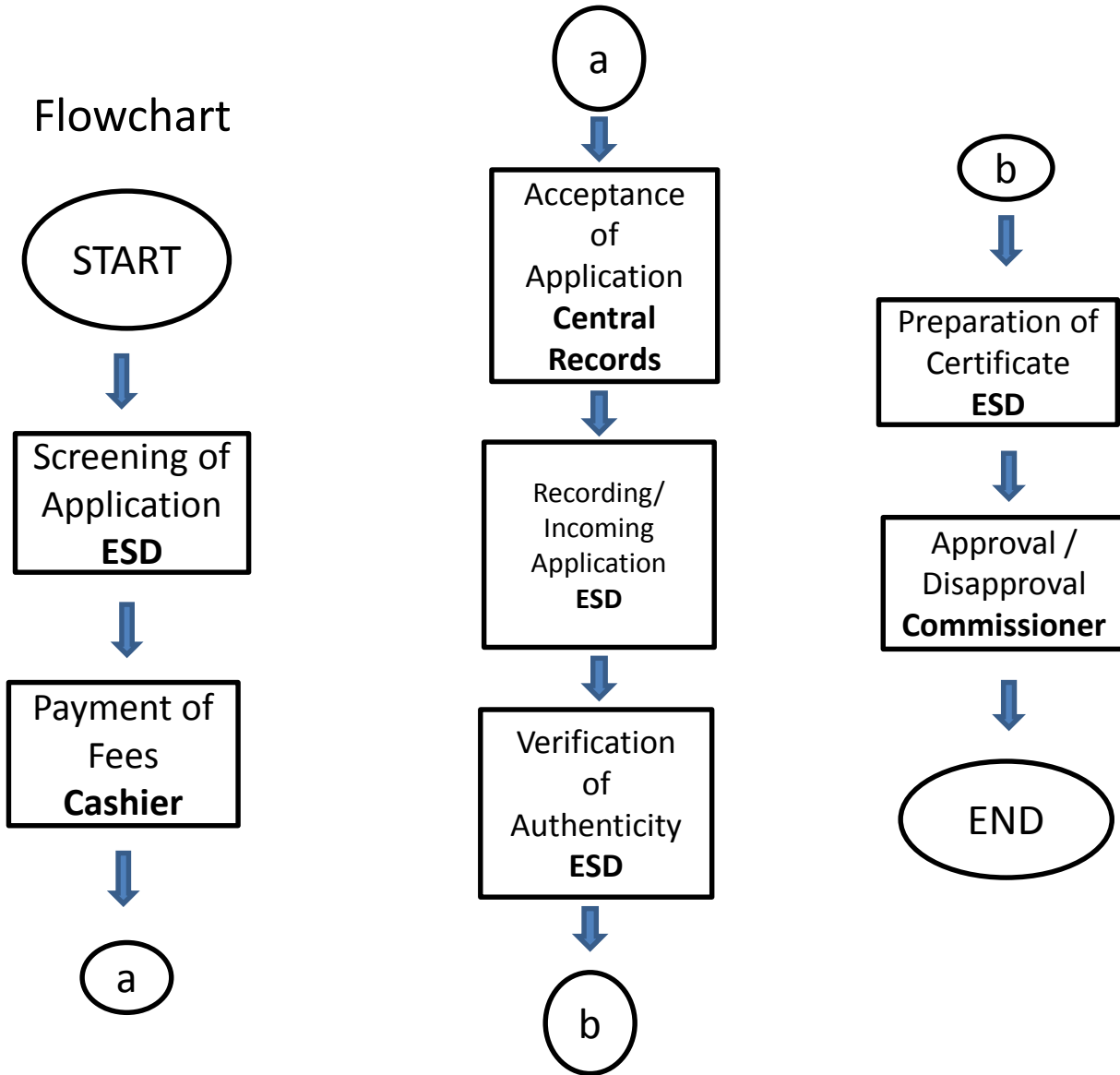
Certificate of Conformity/Test Certificate/Report on the following:

1. Safety
2. Electromagnetic Compatibility
3. Radio Spectrum Efficiency
4. Network Interface Compatibility (CPE)

Common problems faced on conformity and interoperability in the Philippines

- Lack of testing laboratories (EMC /RF).

Conformity assessment processes in place



Requirements for the issuance of Type Approval Certificate (CPE)

1. Duly accomplished Application form.
2. Authorization issued by the manufacturer.
(authority to be the applicant and grantee of certificate)
3. Equipment Description with actual Photo and RF Specifications.
4. Test Certificate/Test Report for the following:
 - a. Safety, (Heath, if applicable)
 - b. Electromagnetic Compatibility
 - c. Network Interface Compatibility (for public network connection)
5. Manufacturer's Self Declaration of Conformity (in cases of Test Report submission)

Note : Regulatory approval issued by other administration e.g. FCC, CE, KRA may be accepted (based on NTC MC 02-01-2001).

Interface Compatibility Approval – is a process by which CPEs are evaluated, at the option of a public telecommunication operator, not only to guarantee safety, as required by MC 02-01-2001, but to ensure operational compatibility when connected to the network of said public telecommunications operator.

ICT Reference standards

- ITU-T & ITU-R
- ISO
- ETSI
- FCC
- PNS – Philippine National Standard (DTI-BPS)
- Philippine NRFAT

Institutions responsible for C&I activities

NTC's role in the Philippines' Conformity Assessment:

- in charge of Conformity Assessment of ICT equipment connected to public network.

- in charge of Conformity Assessment of ICT equipment with wireless (radio) connection.

- the Equipment Standards Division (ESD) is tasked to perform the conformity assessment activities and issue the corresponding certificate.

ESD Functions:

1. Undertake research, formulate and develop technical regulations and standards for telecommunications and broadcast equipment, in coordination with the other units, other government agencies, equipment vendors, telecommunications companies, professional and consumer organizations, foreign regulators and regional/international standards organizations;
2. Promulgate technical regulations and standards in accordance with local standards or regulations and align them with **international standards** as the basis for conformity assessment (testing and certification) of telecommunications and broadcast equipment for the Philippine market after public hearings/consultations with stakeholders;
3. Identify, designate and monitor Conformity Assessment Bodies within Philippines;
4. Coordinate with other Designating Authorities that are member-parties to the APEC and ASEAN MRAs relative to the effective functioning of such MRAs;
5. Coordinate with the NTC ROs for the conduct of post market surveillance activities to determine whether or not the telecommunications and broadcast equipment/products placed in the Philippine market comply or conform with the NTC technical regulations and standards;
6. Conduct laboratory testing of telecommunications and broadcast equipment from non-MRA partners, subject to the availability of test instruments and technical personnel;
7. Issue **Type Approval Certificates** for telecommunications and broadcast equipment; and
8. Formulate rules and regulations concerning telecommunications and broadcast equipment dealers, suppliers, resellers, distributors, manufacturers and service centers.

5G / IOT Test beds / Initiatives

- NTC Initiatives are doing research and evaluation on 5G especially on frequency allocation following the ASEAN 5G roadmap.
- Attending conferences and taking considerations the adoption from neighboring countries or best practices regarding implementation on 5G.
- Issuing Memorandum Circulars (M.C.) which may relate to 5G. (ex. BWA (Broadband Wireless Access), MGWS (Multiple Gigabit Wireless System in freq. 60GHz))

Vision of the future

- Technical Regulations/standards on 5G are in placed.
- Test Facilities/Laboratories are established.

THANK YOU!