

**Chinese-Taipei Regulatory Requirements  
for Telecommunications and Information  
Technology Equipment**



**Presented  
by  
Major Chen**

**Manager-Asia Business Development  
AmericanTCB, Taipei Office.**



# AmericanTCB

**FCC TCB**

**IC FCB**

**CE 1588**

**Home Office: McLean, U.S.A**

**Branch Offices: Taipei, Shenzhen,  
Shanghai, Beijing, London.**



# Overview

## MRA Information

### **NCC/DGT**

(National Communications Commission )

Established on February 22, 2006 (LPD/TTE)

### **BSMI**

(Bureau of Standards, Metrology, and Inspection )

Established in 1999

All products based on controlled product list

EMC and Safety of ITE

### **TAF/CNLA**

(Taiwan Accreditation Foundation)

## **Future Regulatory requirements**



# APEC TEL MRA Status

MRA Phase I

Australia

Hong Kong

Singapore

The United States

MRA Phase II

Industry of Canada  
(IC)





**NCC**

Content

Brief Introduction to NCC

Brief Introduction to RCB

The Telecom Act

Application

Applicable Standards

Lead-time

Labeling



# Brief Introduction to NCC

All Telecommunication Terminal equipment and Radio communication devices to be sold in Taiwan's market are regulated by "NCC, National Communications Commission".

**Headquarters of NCC,  
Address: No.50, Sec. 1, Ren-ai Rd.,  
Jhongjheng District, Taipei City 10052,  
Taiwan**

**Tel:+886-0800-177-177 / +886-2-33437377**

**Fax:+886-2-23433994**

**Website:**

**<http://www.ncc.gov.tw/english/index.aspx>**



# Brief Introduction to RCB

Bureau Veritas ADT [www.adt.com.tw](http://www.adt.com.tw)

Sporton [www.sporton.com.tw](http://www.sporton.com.tw)

Quietek [www.quietek.com](http://www.quietek.com)

ETC [www.etc.org.tw](http://www.etc.org.tw)

Intertek [www.etlsemko.com.tw](http://www.etlsemko.com.tw)

CCS [www.ccsemc.com/ccstw](http://www.ccsemc.com/ccstw)

TTC [www.ttc.org.tw](http://www.ttc.org.tw)

CHTTL [www.chttl.com.tw](http://www.chttl.com.tw)

**Nemko Canada Inc.** (Tel MRA (APEC) Phase 2 with IC)



# The Telecom Act

## Compliance Approval Regulations

Controlled Telecommunications Radio-Frequency Devices (50-2)

Telecommunications Terminal Equipment (42-2)

## General Administrative Regulations

Controlled Telecommunications Radio-Frequency Devices (49-2)

Low Power Radio Waves Radiated Devices (48-4)

Radio Waves of Industrial, Scientific, Medical Equipment (48-4)

## Administration Regulations of RCB

Controlled Telecommunications Radio-Frequency Devices (50-3)

Telecommunications Terminal Equipment (44-2)



# Application (I)

- Regulatory Authority: NCC
- Certification Body: NCC / RCBs
- Applicant: local rep is not required
- Local Test: not required, but should be tested by NCC's accredited labs.
- Certificate Validity: no time limitation
- Series of Models: Allowed. One radio certificate only allows one model listed; serial models need separate certificates.
- Safety: only required for xDSL, VDSL, IP Phone, Cable Modem, (**effective 28 June 2002**), Cell phone (**effective 1Jan 2004**)



# Application (II)

TA (Type Approval) for Radio Communication device

TA (Type Approval) for TTE

DoC for Radio Communication device

DoC for TTE

Note: If the client would like to apply via DoC, the application needs to be reviewed by NCC directly.



# Applicable Standards

## Radio standards

Low power radio device

LP0002

3G Cellphone

PLMN08

WiMAX device

PLMN09

## Telecom standards

ADSL

ADSL01

VDSL

VDSL01

Analog PSTN device

PSTN01

2.4GHz cordless phone

RTTE01



# TTE Technical Regulations

PLMN01: GSM 900 and DCS1800 Mobile Equipment

PLMN02: 1900MHz Digital Low Tier PHS Radio Terminal Equipment

PLMN03: 1900MHz Digital Low Tier PACS Radio Terminal Equipment

PLMN04: Trunked Radio Terminal Equipment

PLMN05: Mobile Data Radio Terminal Equipment

PLMN06: Paging Receiver Radio Terminal Equipment

PLMN07: 1880-1895MHz Wireless Private Branch Exchange and Radio Terminal Equipment

PLMN08: The Third Generation Mobile Telecommunication Terminal Equipment

PSTN01: Terminal Equipment for Connection to Public Switched Telephone Network

ADSL01: Asymmetric Digital Subscriber Line Terminal Equipment and POTS Splitter

ID0002: DS1 Equipment Type Approval Guidelines

IT0002: CT-2 Wireless Private Branch Exchange System Equipment Type Approval Guidelines

IS6100: ISDN Terminal Equipment

IS2019: 1.6/2.4 GHz Satellite Personal Communications Networks (S-PCN) Mobile Earth Stations (MESs) Technical Requirements and Type Approval Guidelines

[http://www.ncc.gov.tw/english/news.aspx?site\\_content\\_sn=102&is\\_history=0](http://www.ncc.gov.tw/english/news.aspx?site_content_sn=102&is_history=0)



# SAR standards

**2G Cell Phone**(PLMN 01, Section 3)

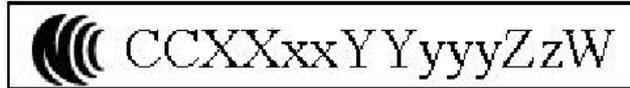
**3G Cell Phone**(PLMN 08, Section 3.1.2)

On **1 April 2006**, the NCC adopts Head and Trunk SAR :  $\leq 2.0 \text{ W/Kg}_{(10\text{g})}$ , as measured over 1gram of human tissue as the FCC and IEEE does. Meanwhile, the NCC adopts the required measurements procedure for the standard, such as FCC Part 2.1093, ANSI/IEEE C95.1 and ANSI/IEEE C95.3, Std. 1528-200x or the ANSI/IEEE relevant latest requirements.



# Labeling & Manual

A Label should contain NCC logo and certificate number as below:



A Manual should contain below warning (for RF device) in traditional Chinese

**注意！**

**依據 低功率電波輻射性電機管理辦法**

**第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。**

**第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。**

**低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。**



# Required Exhibits (LPD)

- Application form with corporate seal
- Circuit diagram (trade name, model no.)
- Block diagram (trade name, model no.)
- Antenna Spec: Antenna pattern, test data, Spec...
- Catalogue /DM (trade name, model no.)
- User's manual (trade name, model no.)
- Product spec. (trade name, model no.)
- Company' license or registrations.

Foreign manufacturers shall submit related certificate of establishment for their legal entity.

- The operation license of controlled telecommunications radio-frequency devices
- Power of attorney
- Modular approval letter (if it is module approval's application)



# Required Exhibits (TTE)

- Application Form with Corporate Seal
- Circuit Diagram (trade name, model no.)
- Block Diagram (trade name, model no.)
- Catalogue /DM (trade name, model no.)
- User's manual (trade name, model no.)
- Product Spec. (trade name, model no.)
- Company' License or Registrations.  
Foreign manufacturers shall submit related  
certificate of establishment for their legal entity.
- Power of Attorney



# Lead-time & Fees

Lead-time:

Testing: EMC : 2 weeks

Safety : 4 weeks

Telecom: 2 weeks

RF: 2 weeks

Certification: RCB review about  
1-2 weeks





# BSMI

Content

Brief Introduction to BSMI

The Commodity Inspection Act

Application

Type Approval (TA)

Registration of Product Certification (RPC)

Declaration of Conformity (DoC)

Applicable Standard

Required Exhibits

Lead-time

Labeling



# Brief Introduction to BSMI

BSMI, the Bureau of Standards, Metrology, and Inspection, is the regulatory authority for ITE in Taiwan under Ministry of Economic Affairs.

## Headquarters of BSMI

Address: 4, Chinan Road, Sec.1,  
Taipei 100, Taiwan, R.O.C.

TEL: (02)2343-1700

FAX:(02)2393-2324,

Website: <http://www.bsmi.gov.tw>



# The Commodity Inspection Act

Inspection of Commodities for Import and Domestic Market (**Mandatory**)

All ITE is subject to BSMI inspection

**Only Safety and EMI**

<http://www.bsmi.gov.tw/wSite/ct?xItem=3855&ctNode=812&mp=2>



# Relevant Regulations

The Commodity Inspection Act

Regulations Governing Type Approval of Commodities

Regulations Governing Registration and Application for Inspection of Commodities

Regulations Governing Market Surveillance of Commodities

Regulations Governing Commission of Commodity Inspection Operations



# Application (I)

Regulatory Authority: BSMI

Certification Body: BSMI

Applicant: local rep is required

Local Test: Not required, but should be tested by BSMI's accredited labs.

Certificate Validity: 3 year

Series of Models: Allowed.

Annual Fee: Required for RPC Scheme



# Application (II)

Check the regulated product list, please visit  
[http://civil.bsmi.gov.tw/bsmi\\_pqn/index.jsp](http://civil.bsmi.gov.tw/bsmi_pqn/index.jsp)

## **TA (Type Approval)**

applicable for most regulated electrical and electronic product

## **RPC (Registration of Product Certification)**

applicable for most regulated electrical and electronic product

**\*\* TA and RPC is optional process depending on applicant's choice**

## **DoC (Declaration of Conformity)**

only for 25 ITE or office equipment



# Type Approval (TA)

- Product category: Applicable for most electrical and electronic products. **HS** code of product will be helpful to identify if the product is under TA regulatory.
- HS Code (Harmonized System Code 6 digits)
- CCC Code (Standard Classification of Commodity of The Republic of China Code 11 digits)
- Test Requirements: Safety, EMI, or “safety + EMI” depend on product category
- Random shipment inspection will be conducted
- No annual fee, but additional charge will be taken for shipment inspection
- Validity of TA certificate: 3 years, extension can be applied while expired, but is limited for once only



# [http://civil.bsmi.gov.tw/bsmi\\_pqn/index.jsp?lang=en](http://civil.bsmi.gov.tw/bsmi_pqn/index.jsp?lang=en) CCC Code List



經濟部標準檢驗局

BUREAU OF STANDARDS, METROLOGY AND INSPECTION, M.O.E.A.

Search System of the Bureau of Standards, Metrology and Inspection

Commodities Search Subject to Legal Inspection

民眾查詢系統

- Search for Commodities which are subject to legal inspection
  - Commodities Search Subject to Legal Inspection
  - Search for Commodities which are subject to legal inspection
  - Search for amendment to the Commodities Search Subject to Legal Inspection
- Search for Registration of Product Certification
- Search for Iso 9000/14001 certification

CCC Code:	<input type="text"/>
Chinese Name:	<input type="text"/>
English Name:	<input type="text"/>
Domestic Sale :	<input type="radio"/> Import <input type="radio"/> Domestic <input type="radio"/> Export <input checked="" type="radio"/> All
Imp. & exp. Regulations :	<input type="text" value="All"/> <input type="button" value="v"/>
Inspection Scheme :	<input type="radio"/> Batch-by-Batch Inspection <input type="radio"/> Monitoring Inspection <input type="radio"/> Product Certification <input type="radio"/> Declaration of Conformity <input type="radio"/> All

# Registration of Product Certification (RPC)

- Product Category: Applicable for most electrical and electronic products, HS code of product will be helpful to identify if the product is under RPC regulatory.
- Test Requirement: Safety, EMI, or “safety + EMI dependent on product category
- Annual Fee around US\$ 150/per each certificate
- No Shipment Inspection Is Required
- Validity of Certificate: 3 years, extension can be applied while expired, but is limited for once only



# Declaration of Conformity (DoC)

- Apply to 25 ITE components or office equipment.
- Such as calculating machines, hard/soft disc devices, storage units..etc
- Local representatives can make declaration with test reports
- Issued by BSMI accredited labs



# Applicable Standards

- **EMI Standards**

- ITE

CNS 13438

- Home electronic device

CNS 13439

- Home appliance (Ex: refrigerator)

CNS 13783-1

- **Safety Standards**

- ITE

CNS 14336

- Home electronic devices

CNS 14408

- Home appliance (Ex: refrigerator)

CNS 3765

- 

- Remark: Performance test (CNS 2026) is required for some Home appliance



# Labeling

Declaration of Conformity (DoC)



Dxxxxx

Registration of Product Certification (RPC)



Rxxxxx

Type Approval (TA)



Txxxxx



# Required Exhibits (I)

- Taiwan local representative certificate or registrations
- BSMI application form
- BSMI Declaration of Conformity to Type Approval
- User's manual in traditional Chinese (for Class A product can be in English)
- Circuit diagram with component location
- Block diagram
- List of emission source and suppression components (including manufacturer, model and specification)
- Label in traditional Chinese, BSMI logo dimension and label location on product
- Explanation letter of serial of models (if it's apply two or more models )
- Confirmation Letter not to sell in public place (if it's Class A product)
- Warning information in user's manual & label (if it's Class A product)



# Required Exhibits (II)

- Safety Critical Component List Including its certificate (VDE, SEMKO... or UL).

If the component is listed but it is not a critical component regarded by BSMI, then the certificate is not required.

- BSMI Certificate of Power Cord Set
- BSMI Certificate of Power Supply



# Lead-time

- **Testing :**

EMC : 2 weeks

Safety : 4-6 weeks

(it takes 2 wks for a CB report converted to a CNS report)

**\*\*Only for CNS 14336\*\***

- **BSMI Review and Certification**

- Review: 28 working days (Officially published in the website)

- Certification: 5 working days if filing is clean.



# TAF Taiwan Accreditation Foundation



**Established on 1/1/2004**

CNLA (Chinese National Laboratory

Accreditation) has been merged into TAF

**Accrediting Body (A2LA, NVLAP)**

Responsible for accrediting testing labs and competent CABs in accordance with ISO/IEC Guides and Standards.

**Online search of all the accredited labs**

[http://service.taftw.org.tw/tafweb/CNLA/lab-directory\\_1Eng.aspx](http://service.taftw.org.tw/tafweb/CNLA/lab-directory_1Eng.aspx)



# Future Regulatory Requirements

- One stop regulatory agency?
- Aligned with international/regional Regulations and Standards
- Less admin barriers and more transparency
- Be a proactive member of international meetings and cooperation



**Questions?**

[major@atcb.com](mailto:major@atcb.com)

0922145886

**Thank You.**

