Conformity Assessment Systems of Telecommunications Equipment
~5 Countries and EU Update 2013~

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Purpose and Items Updated

Purpose
• To support smooth implementation and further promotion of the Mutual Recognition Agreement (MRA) and realization of smooth international trade of telecommunications equipment by increasing MRA partner countries.

Countries and Region
• EU, Singapore Republic, U.S., South Korea, Canada, China

Items to be Updated
• Overview of Conformity Assessment (CA) System / Political Trend
• Relationship between CA System and Equipment License System
• MRA for Telecom Equipment / Status of Free Trade Agreement (FTA)
• Trade Statistics of Telecom Equipment
• Trend of Market Surveillance and Policy against Non-compliance
South Korea

The CA systems of wireline / wireless / IT equipment have been integrated into one system in the Radio Law and the National Radio Institute (RRA) comprehensively controls the system.

- Target equipment of CA system is referred to as “broadcasting communication equipment”.
- Electrical safety regulation and electromagnetic wave regulation have been separated.
- The CA Technology Council has been established. (April 2012)
- The power to issue notices has been delegated to RRA from KCC.
- Specific absorption rate (SAR) data of mobile terminals has been published.
- Measurement requirements and methods for SAR has been developed.
- For implementation of FTA the accreditation system of CA bodies has been developed. The accreditation Body was established in RRA.
- The RRA has the research departments to perform political study.

KCC: Korea Communications Commission
Canada

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<th>APEC-TEL activity, market surveillance, harmonization of the technical standards with technical standards in the U.S. etc.</th>
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<td>• Developing the guidelines for implementation of APEC-TEL MRA-ETR</td>
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<td>• APEC-TEL MRA Phase I has been started.</td>
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<td>• Market surveillance and SAR issues were reported in the TCBC workshop.</td>
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<td>• IC consulted TCBC on revision of RSS-132 &amp; RSS-244.</td>
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<td>• IC consulted TCBC, CSA, RABC on revision of ICES-003.</td>
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<td>• IC announced the acceptance of the testing results based on the KDB for DTS &amp; U-NII devices of FCC.</td>
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<td>• IC amended the error in IEC 62209-2 for RF exposure requirements referred by RSS-102.</td>
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<td>• IC clarified the requirement of reassessment of family products in RSP-100 &amp; DC-01.</td>
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<td>• IC clarified the receivers required certificates in RSP-Gen for common requirements for radio equipment to be certified.</td>
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<td>• Part II, VI, &amp; VII of CS-03 for requirements for terminal attachments have been revised.</td>
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Focusing on monitoring of product quality, strengthen supervision to certification / testing bodies, overseas activity etc.

- The national supported RoHS certification enforcement regulation has been promulgated. (July 2012)
- AQSIQ published the data on current status of product quality.
- The national technological laboratory for wireless network security has been established. (December 2012)
- The WAPI national technological laboratory has been established. ( December 2012 )
- The staff of CATR presented the standardization, certification and testing for the NFC technology in the TCBC workshop.
- The amateur radio management method has been amended.
Towards revision and implementation of the R&TTE directive activities and cooperation in the bodies concerned have been enhanced.

- EC adopted a draft amendment of the R&TTE Directive (October 2012)
- TCAM INOV WG, EG discussed the creation of innovation.
- TCAM R&TTE Subclasses discussed the wireless device classification.
- ADCO R&TTE has performed a variety of market surveillance activities.
- The function of ERO’s EFIS has been enhanced.
- ECC, R&TTECA and ETSI discussed the DFS requirements for 5 GHz WAS / RLAN in a coordinated manner.
- R&TTECA discussed many themes and held two meetings.

TCAM: Telecommunication Conformity Assessment and market Surveillance committee  INOV: Innovation
EG: Experts Group  ADCO: Advisory Committee  EFIS: ECO Frequency Information System
ECO: European Communications Office  ECC: European Communications Commission
New CA scheme has been developed in 2010 and further in 2011.

- The technical specification (TS) for a power line communication (PLC) home network has been developed. (August 2012)
- The TS for PLC was added to the Guide for Registration for Telecommunication Equipment. (January 2013)
- The Telecommunications Act has been partially revised. (February 2012)
- The general radio-communication station licence application guidelines has been revised. (January 2003)
- The IDA recognized local testing laboratories have been partially changed.
- The number of the IDA recognized foreign testing laboratories has changed to 33 from 40.
- The IDA recognized foreign certification bodies have been partially changed.

United States of America

FCC and TCBC work together in a coordinated manner to update the authorization program and its practice continuously.

- FCC: proposed strengthening of the equipment authorization program and changing of a Grantee Code.
- DA: ANSI C63.19 HAC testing standard for mobile handsets has been adopted.
- FCC Docket: New rules were proposed in Part 2, 15D, 20, 90, 95, 101.
- NIST: Survey of the need for training on technical standards of Mexico (U.S.-Mexico MRA)
- OET KDB: General (1), Unlicensed device (8), Part 90 (1), SAR (9), Procedure (9), TCB Exclusion List (1), Permit-But-Ask (1), TCB program (1)
- FCC-TCBC Conference Call (monthly) and TCBC Workshop (April & October 2012)
- ACTA Meeting: 1/19, 4/12, 7/26, 11/13 held in 2012.
- ACTA Agenda: Plugs and Jacks non-compliance issue, Market surveillance and enforcement issue

DA: Daily Advice  HAC: Hearing Aid Compatibility  ANSI: American National Standard Institute
NIST: national Institute of Standard and Technology  OET: Office of Engineering and Technology
ACTA: Administrative Council for Terminal Attachment
CA System (Korea)
Information Point (RRA)
CA System (Canada)
Information Points (CEB, TAPAC)
CA System (China)
Information Points (CTLC, CTTL, SRRC, SRTC, CQC, ISCCC)
CA System (EU)
Information Point (R&TTECA)
CA System (Singapore)
Information Point (IDA)
CA System (U.S.)
Information Points (TCBC & ACTA)
<table>
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<th>CA System</th>
<th>License System</th>
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| **Korea**              | **GA**: Radio station operation authorization, Frequency use authorization (Radio Act 19, Enforcement Order 21 & 23)  
| Certificaiton Program (Radio Act 58-2)  
| · Certification, Registration, Interim/Termporary Certification  
| Condition of establishment of radio station (Radio Act 20-2): Radio equipment complies with technical requirements.  
| Note: Low-power radio equipment requires registration.   | **IL**: Operation Application (Radio Act 19-2, Enforcement Order 24)  
| Exempt: Radio stations that can be operated without application (Radio Act 19-, Enforcement Order 25, RRA Notice 2010-13) |   |
| **China**              | **GA**: The national radio management organization approvals allocation and use of frequencies. (Radio Management Ordinance 22)  
| Radio Type Approval (RTA) (Radio Management Ordinance 30)  
| In order to obtain a license for the installation and use of the radio station, the radio equipment must comply with national technical standards. (Radio Management Ordinance 12)  | **IL**: Radio station installation & use license. (Radio Management Ordinance 11)  
| Exempt: Radio stations not regulated by MIIT (Radio station license management Rules 2)  |
## CA System and Equipment License System

GA: General Authorization  IL: Individual License

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<th>License System</th>
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| **カナダ** | **GA**: Radio operator Certificate  
**IL**: Installation & operation license (RSP-101,1,4)  
RSS includes the information about a license. |
| ![Canada Flag] | Exempt: RSS-210, RSS-310 target equipment & amateur radio equipment (RSP-101,1.3) |
| **米国** | **GA**: Case by case basis Authorization, Blanket license  
**IL**: B1, B2, B3, B4 equipment Individual license, Station license, System license (ref. Part 22-101) |

- **CA System**
  - Certification: Radio equipment certification Procedure (RSP-100)  
  - Class I Equipment  
  - Certification exempt Class I Equipment (RSS-210)  
  - Class II Equipment: RSS-310 equipment & Amateur radio equipment  
  - Self-confirmation of conformity to requirements is required.  
- **License System**
  - **GA**: Radio operator Certificate  
  - **IL**: Installation & operation license (RSP-101,1,4)  
  - RSS includes the information about a license.  
  - Exempt: RSS-210, RSS-310 target equipment & amateur radio equipment (RSP-101,1.3)  

- **米国**
  - TCB or FCC certification: TCB classification  
  - A: Unlicensed Radio Frequency Device  
  - B1: Personal Mobile Radio Services (cellular)  
  - B2: General Mobile Radio Services (non-cellular)  
  - B3: Maritime and aviation Radio Services  
  - B4: Microwave Radio Services  
  - Verification is required for user equipment for Part 22-101 services.
# CA System and Equipment Licence System

**GA:** General Authorization  **IL:** Individual Licence

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<th>CA System</th>
<th>Licence System</th>
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<td><strong>Self Declaration of Conformity to R&amp;TTED requirements.</strong></td>
<td><strong>GA:</strong> GA is issued to networks and services (Amended Authorisation Directive 2002/20/EC)</td>
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<td><strong>Ensurance of placing radio equipment on the market (Article 6)</strong></td>
<td><strong>IL:</strong> Restrictions by Member States (licence, frequencies used etc.) Frequency non-harmonised equipment</td>
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<td><strong>Allowance of the putting into services (Article 7)</strong></td>
<td>Exempt: Frequency harmonised R&amp;TTE equipment (subject to EC Decisions or ECC Decisions) Especially user equipment</td>
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<td><strong>Member States can restrict the putting into services subject to Article 7(2) (ref. EFIS)</strong></td>
<td>SDR regulation depends on Member States (ref. ERC Recommendation 70-03)</td>
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<td><strong>GA:</strong> Service base operator licence, Facility base operator licence, Network licence (Telecommunications Act § 5 &amp; 5A)</td>
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<td><strong>IL:</strong> Station licence, Dealer licence</td>
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<td><strong>Equipment registration (ER) scheme</strong></td>
<td>Exempt: Radio-communication equipment other than target equipment of Network licence, Station licence</td>
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<td><strong>Radio-communication equipment registered by SER (Simplified ER) &amp; GER (General ER including certification process)</strong></td>
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*シンガポール*
Summary: Information gathering

Report

• Outline of the survey on the CA systems by MIC in 2012
• About the technical regulation systems of 5 countries and EU, and the contact points for information gathering
• Summary of license systems obtained by using those contact points

Is there any guidebook to know CA systems in every countries?

• After the privatization of CA, two approval manuals for all countries had been discontinued.
• Individual transmission of information by CA bodies (Diversity)
• One-stop type contact points to obtain practical information (Integration)
• Well arranged information by administrative organizations due to the MRA implementation (Transparency)

Conclusion

• Diversification and fluidization of information is consequence of privatization.
• Please establish partnership and enjoy information gathering.
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