

Radio Equipment Approval in Japan

November 17, 2017

ANF Seminar

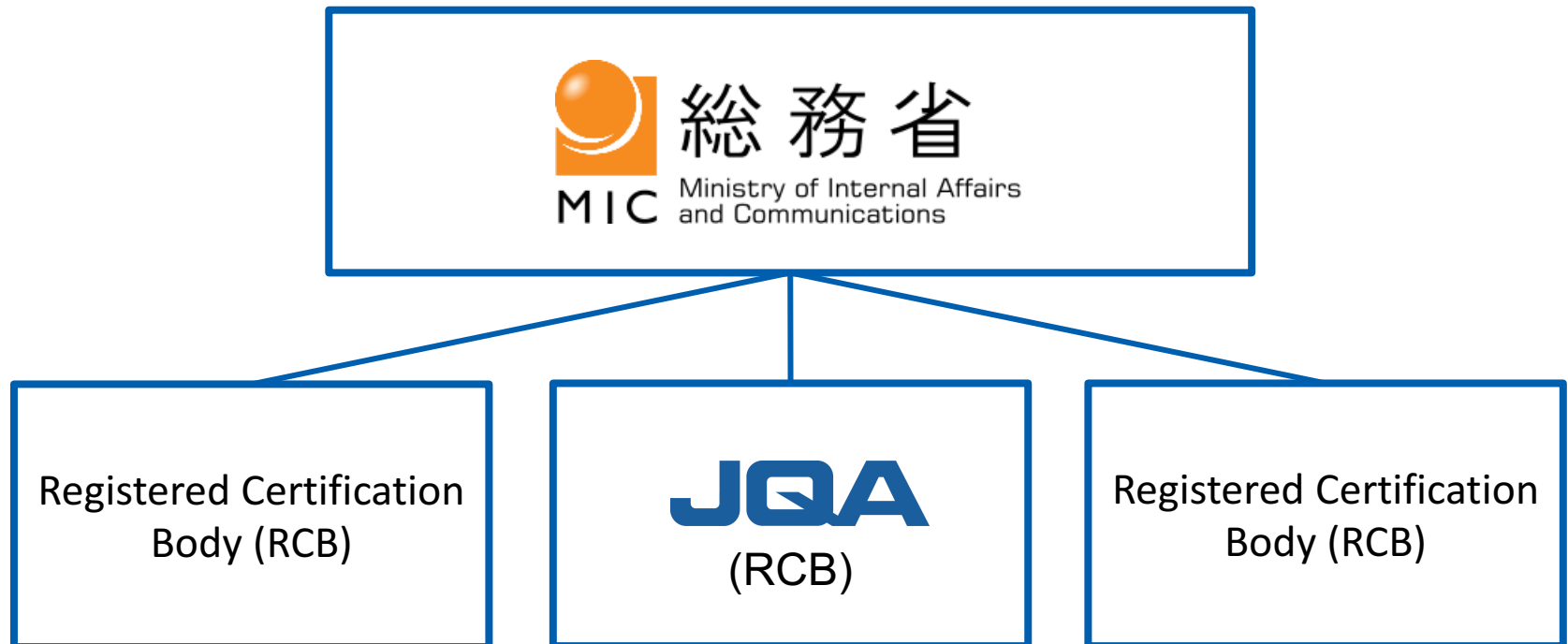


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1.1 Regulatory Authority



1.2 Relevant Legislation

1. The Radio Law (電波法)
2. Enforcing (Cabinet) Order of the Radio Law (電波法施行令)
3. Enforcing Ordinance of the Radio Law (電波法施行規則)
4. Ordinance Regulating Radio Equipment (無線設備規則)
5. Ordinance concerning Certification of Conformity to Technical Standards, Etc... of Specified Radio Equipment
(特定無線設備の技術基準適合証明等に関する規則)
6. MIC Notifications related to the Radio Law
(電波法関係告示)

A full list in Japanese is available on MIC's website:

<http://www.tele.soumu.go.jp/j/sys/equ/tech/laws/index.htm>

1.3 Approval Schemes



	Specified Radio Equipment	High-Frequency Device	Extremely Low-Power Device
Regulator	Ministry of Internal Affairs and Communications (MIC)		JAAMA/EMCC
Scheme Type	Mandatory	Mandatory	Voluntary
Validity	Unlimited		
RF Exposure	SAR (Head and/or Body) Required if output power is over 20mW	EMF	N/A

1.4 Product Scope

- The Radio Law's scope covers all products which emit electromagnetic waves with frequencies under 3 THz. The Radio Law requires approvals of not only wireless communications devices, but also high-frequency devices such as welders and induction heating (IH) cooking equipment.



	Specified Radio Equipment	High-Frequency Device	Extremely Low-Power Device
In-scope Products	<ul style="list-style-type: none"> Bluetooth WiFi LTE GSM ZigBee Wireless mics RFID (2.4 GHz, 920 MHz) Telemeters Pagers UWB radio systems Etc... 	<ul style="list-style-type: none"> IH cooking devices Microwaves Electrode-less discharge lamps Welders RFID (13.56 MHz) Ultrasonic devices Other equipment over 10 kHz (including industrial and medical devices) 	<ul style="list-style-type: none"> < 500 $\mu\text{V}/\text{m}$ for products operating under 322 MHz or over 150 GHz < 35 $\mu\text{V}/\text{m}$ for 322 MHz – 10 GHz < 3.5x $\mu\text{V}/\text{m}$, where x is frequency in GHz (or 500 $\mu\text{V}/\text{m}$, whichever is lower) for 10 GHz – 150 GHz <p>(field strength limit @ 3m)</p>

1.5 Test Standards

- Test methods and standards are specified in the Ordinance Regulating Radio Equipment and MIC Notifications (Japanese):
<http://www.tele.soumu.go.jp/j/sys/equ/tech/test/index.htm>
- They are not harmonized with international standards and official translations in English are not available.

1.6 Regarding Accreditation

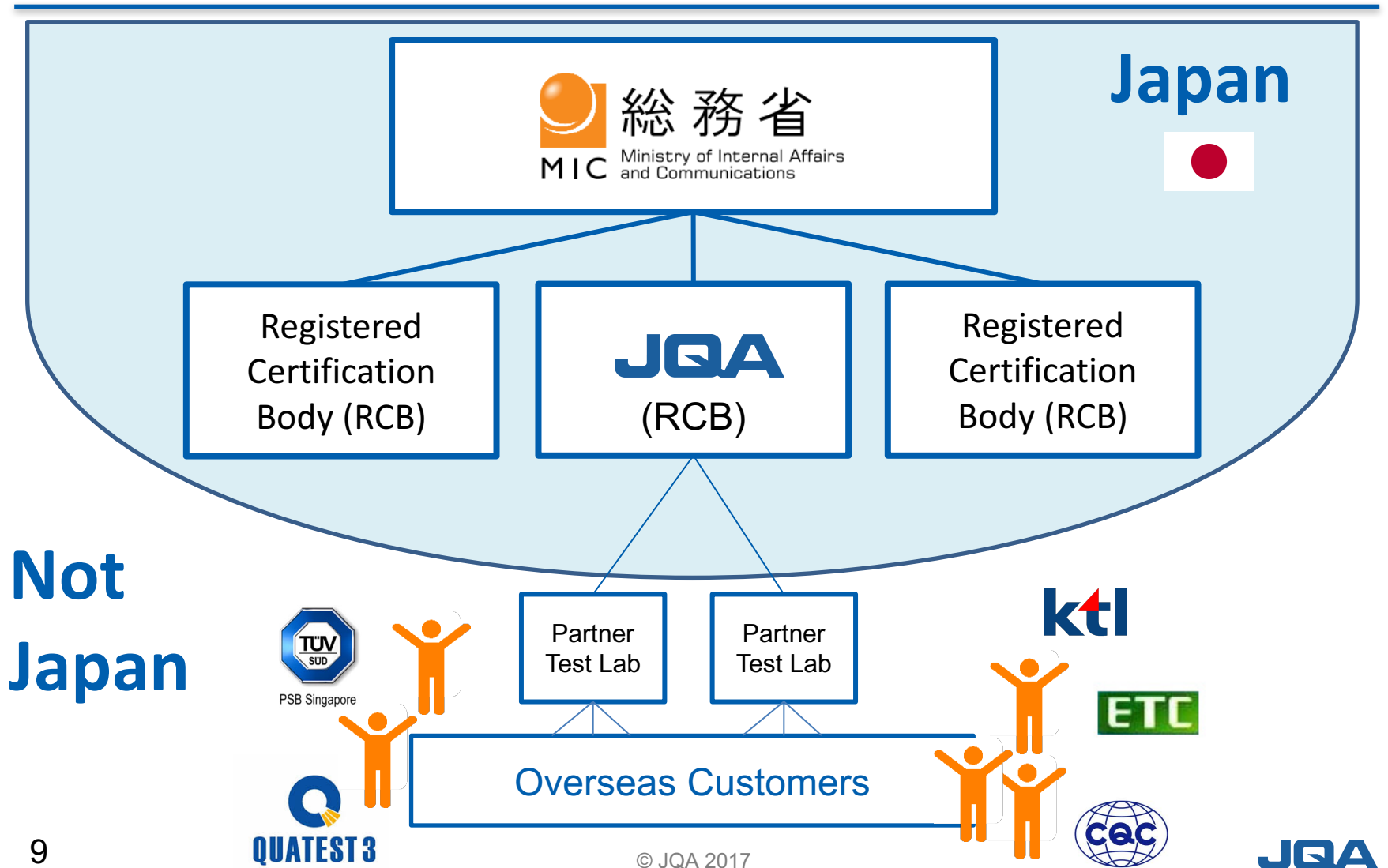
- In general, ISO/IEC 17025 labs reports are acceptable.
- MIC allows Registered Certification Bodies (RCBs) to decide whether or not to accept other laboratories' test reports.

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Part 2: Application Overview

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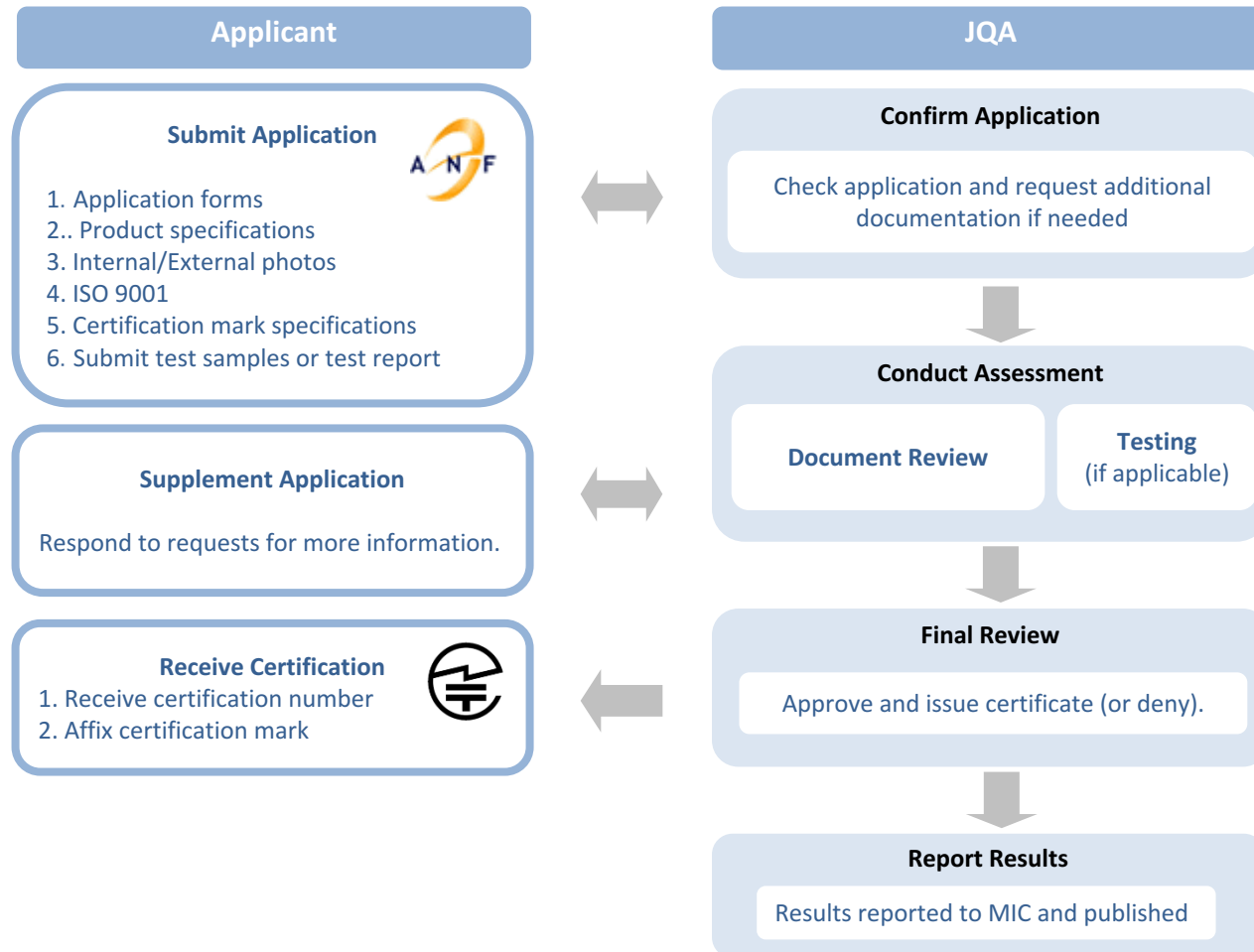
2.1 Application with ANF



2.2 Application Materials

- Application forms & Power of Attorney
- Specification Sheets
 - 1: Antenna Specifications
 - 2: Radio Equipment System Diagram
 - 3: Supplementary Specification Sheets
 - 4: Radio Equipment Component Layout
 - 5: External Drawings/Photographs
 - 6: Circuit Diagrams
 - 7: Component Lists
- ISO 9001 certificates
- Label layout
- Test samples and Operating Instructions (or test report)

2.3 Application Flow



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3.1 Recent News

- Due to an increased number of non-compliant products on the market, [MIC has released draft regulations](#) to require test reports to be released publicly.
- MIC is concerned RCBs in Japan may be accepting fake data to quickly/cheaply issue certifications.

3.2 Contact Window

- Please contact me, or our Japan Radio Law Certifier Takeshi Choda for any inquiries.

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3.3 Further Information

- JQA's brochures regarding each approval:
<http://www.jqa.jp/english/safety/action/brochure.html>
- JQA's Information Booklet regarding Japan's Radio Law:
http://www.jqa.jp/english/safety/file/guide_radio.pdf
- JQA's application information page:
<http://www.jqa.jp/english/safety/action/application/radio.html>