Rules and Procedures Related to MRAs and Certification in Brazil

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Topics

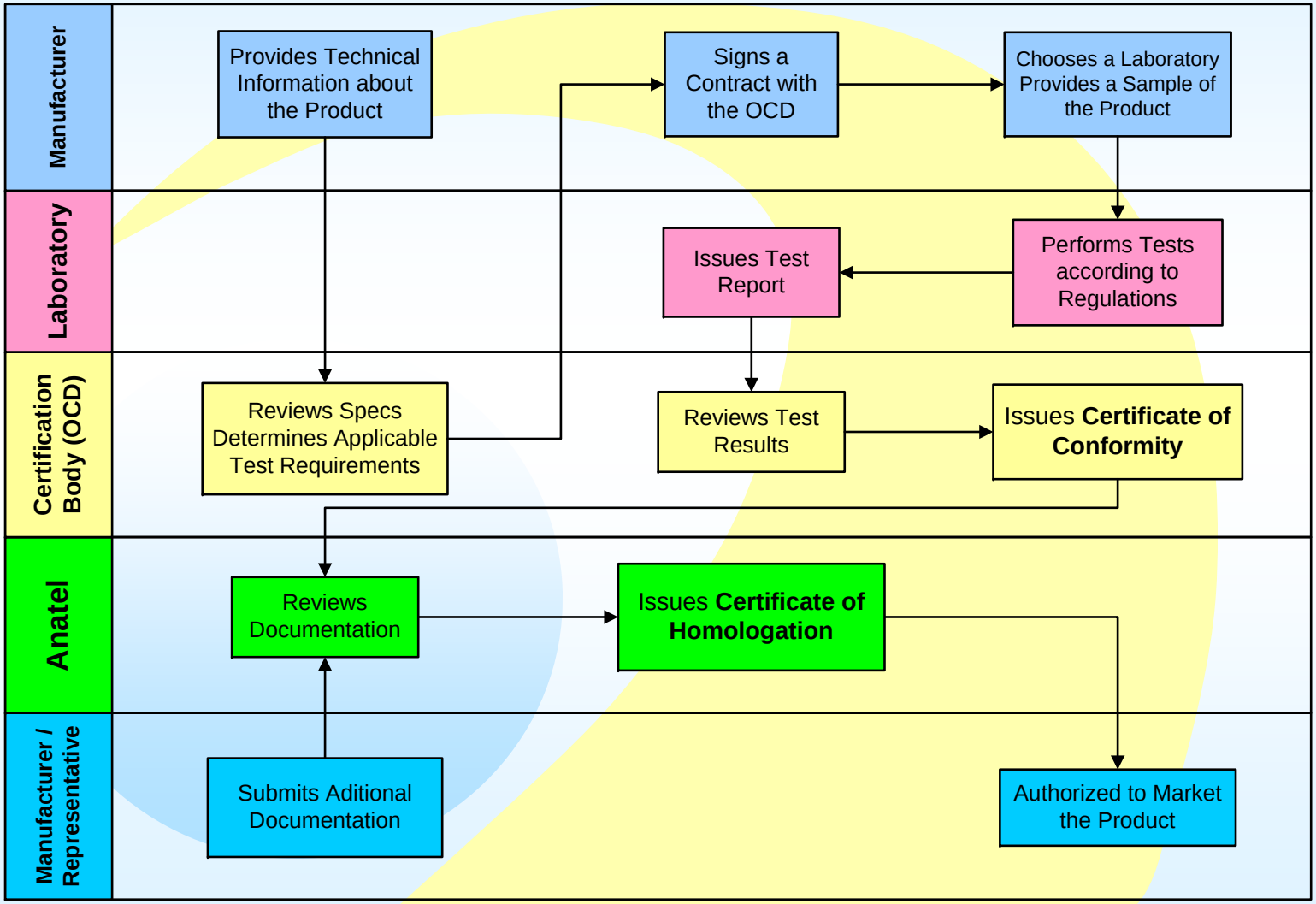
- Legal Background.
- Process of Certification and Homologation.
- Designated Certification Organizations and Laboratories
- Classification of Telecommunication Products.
- Technical Requirements for Certification.
- Conclusion.

Applicable Laws and Regulations

- **Law 9.472** (July 1997) – General Telecommunications Law.
  - ✓ Establishes that **Anatel**, the Brazilian National Telecommunications Agency is responsible for issuing or recognizing the certification of telecommunication products and for issuing standards and regulations regarding their use in Brazil.

- **Resolution 242** (November 2000) – General regulations on the certification and approval of telecommunication products.
  - ✓ Establishes that any telecommunication product, before it may be sold or used in Brazil, must have a CERTIFICATE OF CONFORMITY issued by a **Designated Certification Organization – OCD** and approved / homologated by Anatel.
  - ✓ Classifies telecommunication products in three Categories;
  - ✓ Establishes that Anatel may implement Mutual Recognition Agreements for conformity assessment of telecommunication products, recognizing foreign certification bodies and laboratories as parts of its conformity assessment process.

Brazilian Certification Process



Designated Certification Organizations - OCDs

- May be designated, by Anatel, to act as OCD:
  - ✓ Organizations accredited by INMETRO, the official Brazilian accreditation organization;
  - ✓ Brazilian Non-Profit organizations which demonstrate technical and administrative skills to perform conformity assessment of telecom products;
  - ✓ Foreign organizations recognized by Mutual Recognition Agreements.

- Anatel indicates, in the Act of Designation, the types and classification of products that each OCD may certify.

- Currently Anatel has designated **12** OCDs .

Laboratories

- **Currently are available in Brazil, for testing telecom products:**
  - ✓ **23** Third Party laboratories: **18** accredited by INMETRO and **5** evaluated by OCDs;
  - ✓ **5** First Party laboratories evaluated by OCDs:

- **Order of Priority for choosing a Test Laboratory:**

1. Brazilian Third Party Laboratories accredited by INMETRO and foreign laboratories recognized by **Mutual Recognition Agreements**.
2. Third Party Laboratories evaluated by the Brazilian OCDs.
3. Laboratories which are not Third Party, evaluated by the OCDs.
4. Foreign laboratories accredited by organization member of ILAC.

Categories of Telecommunication Products

- **Category 1**: Terminal equipment used by the general public to access public telecommunication networks (Ex: Telephone sets, cell phones, modems…).

  Certification : Laboratory Testing of a representative sample;
  Factory Inspection (may be replaced by ISO 9000 certification);
  Periodic Evaluation (every year).

- **Category 2:** Products not included in Category 1, that use the radio frequency spectrum. (Ex: Digital Transceivers, Antennas, restricted radiation equipment…).

  Certification : Laboratory Testing of a representative sample;
  Periodic Evaluation (every two years).

- **Category 3:** Products not included in Categories 1 or 2 for which regulation is necessary to ensure network interoperability, safety and EMC (Ex: Switches Cables; Batteries; Power Supplies; Data communication Multiplexers…).

  Certification : Laboratory Testing of a representative sample.

General Technical Requirements

- Anatel establishes which types of products are subject to mandatory Certification and in which category they should be included.

- Anatel publishes the list of technical requirements and test procedures for certification of telecom products (Performance, EMC and Safety).

- Old standards and regulations are being either superseded or updated to include new types of products and new technologies.

Performance Requirements

Order of priority in applicability of Standards and Regulations.

1. Rules and Regulations issued by Anatel;
2. Regulations issued by Ministry of Communications before Anatel was created;
3. Standards issued by TELEBRAS, the former government owned telecommunication company;
4. International Standards / ITU Recommendations.

Electromagnetic Compatibility Requirements

- Regulation approved by Anatel Resolution 442:
  - ✓ Based on international standards 61000-4-2; 61000-4-3; 61000-4-4; 61000-4-5; 61000-4-6; 61000-4-11; CISPR 11; CISPR 22; CISPR 24; ITU-T Recommendations K.21, K.44, K.38 and K.48;
  - ✓ Requirements for: Disturbance Emission, Immunity and Resistibility;
  - ✓ Specific limits and additional requirements so compliance with the referenced standards does not assure full compliance with Resolution 442.

Electrical Safety Requirements:

- Regulation approved by Anatel Resolution 238:
  - ✓ Based on international standards IEC 60950; IEC 651 and ITU-T Recommendations K.21, and P.36.
  - ✓ This regulation is presently under revision and a new version should be approved by Anatel's Board of Directors in the next few weeks.

Product Identification

- After Certification by an OCD and approval by Anatel the products should be identified with Anatel label, before marketing.

HHHH – Number of ANATEL approval.

AA – Year of the approval.

FFFF – Identification of the manufacturer.

- The Bar Code, type UCC/EAN-128, will be used to trace the existing data on the product and the manufacturer, in Anatel's database.

Present Situation

Homologation Certificates Issued by Anatel from 2001 through March 2009

- Category 1 products: **4208** Certificates
- Category 2 products: **5910** Certificates
- Category 3 products: **2379** Certificates

Correspond to **20114** models of telecommunication products.

Conclusion

- ✓ Brazil has adopted a successful and comprehensive certification and homologation process for telecommunication products;
- ✓ The Conformity Assessment and Laboratory infrastructure available in Brazil is increasingly capable of performing the activities involved in MRAs.
- ✓ The current legal framework already foresees the possibility of establishing Mutual Recognition Agreements.
- ✓ At first, Brazil is examining the prospect of implementing Phase 1 of MRAs, for mutual recognition of laboratory test reports.
- ✓ Studies are being conducted to determine the types of products for which Brazil would be interested in establishing Mutual Recognition Agreements with other administrations.

Thank You

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