



# **Certification Process of Telecommunication Products in Brazil**

## **Topics**



- ❖ Legal Background.
- ❖ Technical Requirements for Certification
- ❖ Process of Certification and Homologation.
- ❖ Designated Certification Organizations and Laboratories
- ❖ Database - SGCH

## Applicable Laws and Regulations



### ➤ **Law 9.472** (July 1997) – General Telecommunications Law

- ✓ Anatel
- ✓ Telecom products certification
- ✓ Must issue or recognize the certification of telecom products
- ✓ Must issue standards and regulations regarding products.

## General Conformity Regulation



### **Resolution 242** (November 2000) – General regulations on the certification and approval of telecommunication products.

- ✓ telecom products, before it may be sold or used in Brazil, must have a CERTIFICATE OF CONFORMITY homologated by Anatel.
- ✓ Establishes that Anatel may implement Mutual Recognition Agreements
- ✓ Defines The General Principles to establishment of the standards

## Technical Standards



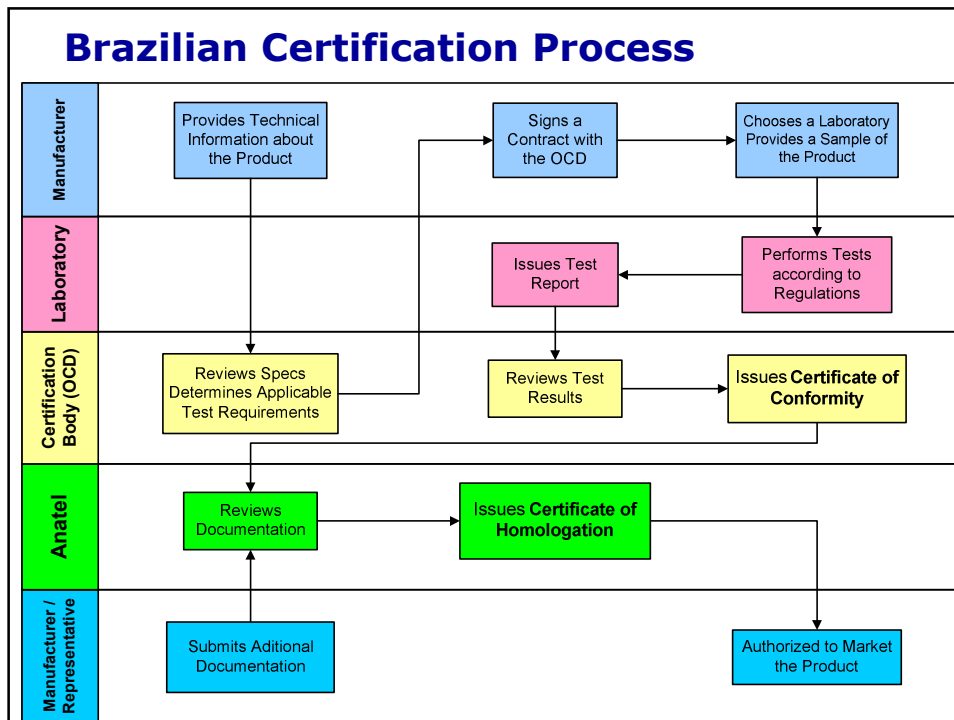
### Documents used in conformity assessment of products for certification:

1. Standards and Regulations issued by Anatel;
2. Regulations from other Governmental Agencies (Ministry of Communications, Environment, etc.);
3. Standards from other national organizations (ABNT, CONAMA, etc.);
4. International Standards references (example: ITU; IEC);

## Requirements



- Anatel publishes the list of technical requirements and test procedures for certification of telecom products
- General Principles
  - Spectrum
  - Services requirements
  - Performance
  - Interoperability
  - EMC and
  - Safety



## OCD



- The OCD (Organismo de Certificação Designado) is whom issue the Certificate of Conformity
- Anatel indicates, through the Designation Act, the types and classification of products that each OCD may certify, based on OCD expertise.
- Currently Anatel has **12** OCDs operational

## Laboratories



1. Brazilian Third Party Laboratories accredited by INMETRO
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 Telecom 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.

## Identification



### Anatel Label



**Anatel: HHHH-AA-FFFF**



**HHHH** – Number of ANATEL approval.

**AA** – Year of the approval.

**FFFF** – Identification of the.

## Database



The Anatel certification management is done by an web-based interface.

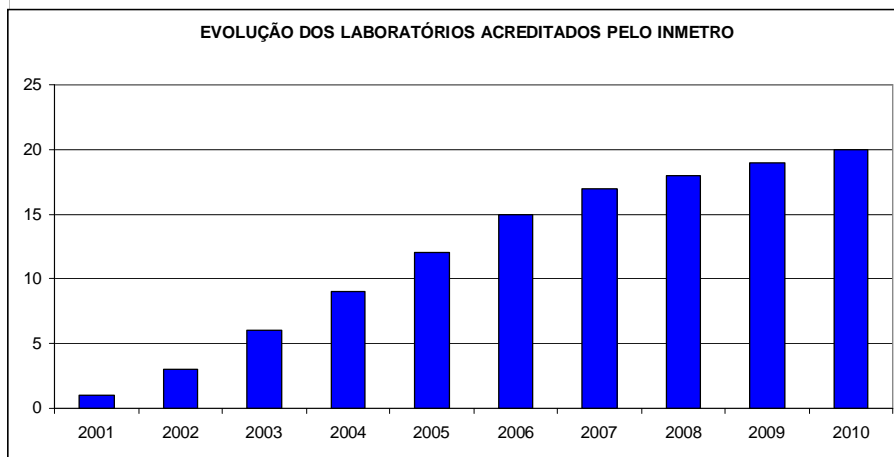
- **SGCH** ([sistemas.anatel.gov.br/sgch](http://sistemas.anatel.gov.br/sgch)): sistema de gestão da certificação e homologação
- On-line access to the general public, providing the information as: the homologation certificate, manual, external photo, supplier responsible contacts

## 10 years

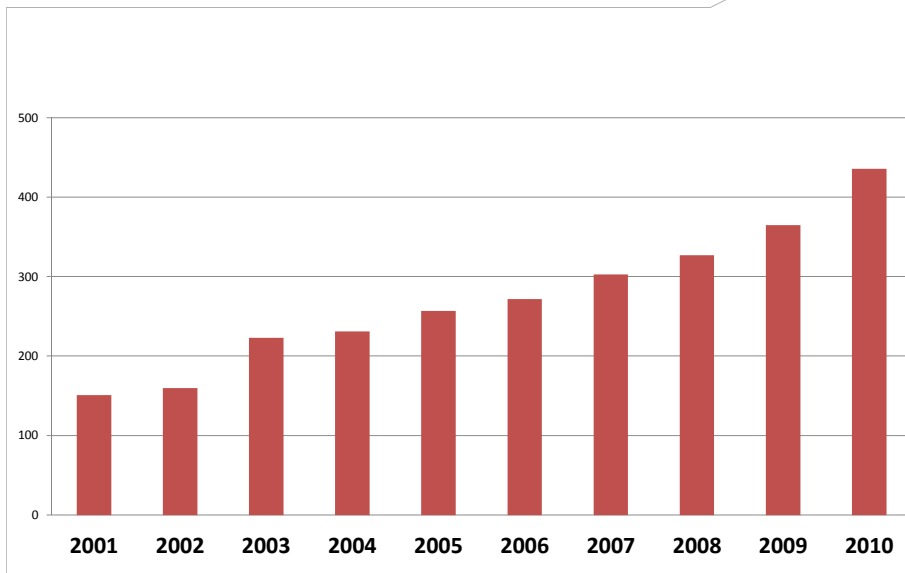


- In 2010 Anatel certification program completed 10 years.
- It was verified an expressive increase in the laboratorial infrastructure as professionals evolved.

## Accredited Laboratories 2001-2010



## Laboratories Professional #



## Under study



- In 2012, a Public Consultation to review de Res. 242.  
Topics under study:
  - Providers / local representative, responsibilities
  - Usage of other models of conformance assessment
  - Label specifications
  - Post market surveillance procedures
  - ...





# Thank You

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