



Homologation and certification of telecommunication equipment in the Republic of Venezuela





Agenda



Legal Framework on Homologation and Certification of Equipment



Homologation Procedure



Homologation Procedure in Numbers



Future Actions



Legal Framework for the Homologation and Certification of Equipment



Legal Framework for the Homologation and Certification of Equipment

- Telecommunication Organic Law
- Legal ruling containing the list of foreign agencies and organizations recommended for homologation and certification of telecommunication equipment
- Legal ruling containing Conditions for Free Use Equipment Qualification





Legal Framework for the Homologation and Certification of Equipment

Telecommunication Law

Title I "General Provisions / Article 2 / Numeral 9:

Favor the harmonic development of telecommunications systems in a geographical space according to law.

Title IX "On Homologation and Certification

- ↳ **Article 141:** "Telecommunication equipment is subject to homologation and certification, with the purpose of ensuring integrity and quality of telecommunications networks, the radio-electric spectrum, and safety of users, operators and third parties..."



Legal Framework for the Homologation and Certification of Equipment

Telecommunication Law

Title IX "On Homologation and Certification"

- ↪ **Article 142:** The National Telecommunications Commission – CONATEL, by means of the national and foreign certification entities it has recognized for such purposes, will standardize and certificate telecommunications equipment and machines manufactured or assembled in Venezuela.

- ↪ **Article 143:** CONATEL will dictate the technical regulations relative to homologation of telecommunications equipment and machines and will approve and publish a list of standardized brands and models and their possible uses.

- ↪ **Article 144:** CONATEL will establish the amount of rates applicable in the homologation obtention process.



Legal Framework for the Homologation and Certification of Equipment

Legal ruling containing the list of foreign agencies and organizations recommended for homologation and certification of telecommunication equipment

In the list are included the foreign agencies and organizations recommended for homologation and certification of telecommunications equipment, so that the equipment homologized or certified by the same, also in compliance with requirements and conditions established to that effect in this instrument, may be commercialized and installed in the Republic without needing to request a new homologation.

This instrument likewise recognizes certification entities or organizations issuing conformity, approval or homologation certificates or declarations on behalf or by authorization of the homologation entities or organizations indicated in this legal ruling.



Legal Framework for the Homologation and Certification of Equipment

Legal ruling containing the list of foreign agencies or organizations recommended for homologation and certification of telecommunications equipments



- *European Union*
- *Federal Communications Commission (FCC) of the United States*
- *Industry Canada from Canada*
- *Agencia Nacional Telecomunicaciones (ANATEL) of Brazil*
- *Comisión Federal de Telecomunicaciones (COFETEL) of Mexico*
- *Comisión Nacional de Telecomunicaciones (CNC) of Argentina*



Legal Framework for the Homologation and Certification of Equipments

Legal ruling containing Conditions for Approval of Free Use Equipment

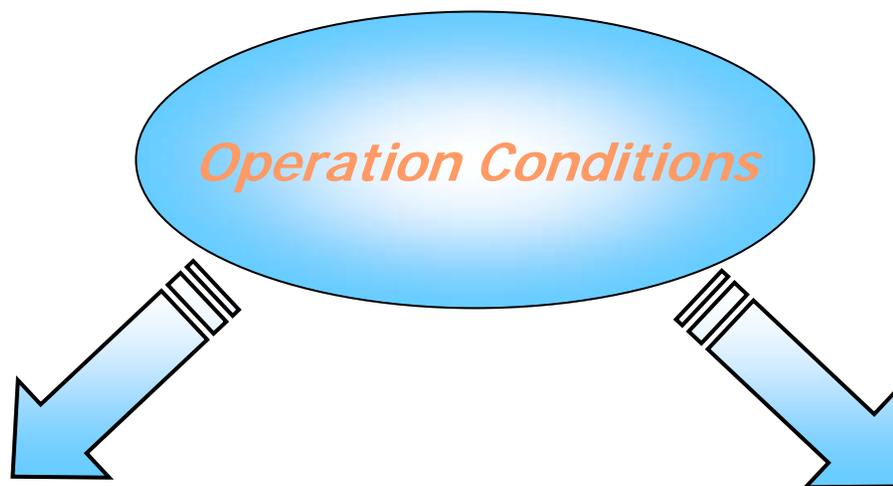
Establishes the conditions an equipment must meet for free use approval, in which case the obtention of use and exploitation concessions of radio-electric spectrum will not be required for its installation or operation.

In the event this equipment is used for telecommunications services providing, the obtention of an administrative qualification will be required.



Legal Framework for Homologation and Certification of Equipment

Legal ruling containing Conditions for the Approval of Free Use Equipment



There are maximum limits for the electric field intensity according to frequency band to operate the equipment.

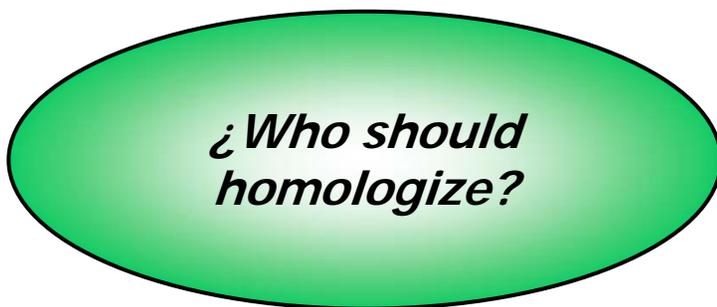
There are frequency uses and values, band width and maximum potency and electric field intensity limits for normal operation conditions.



Homologation Procedure



homologation Procedure



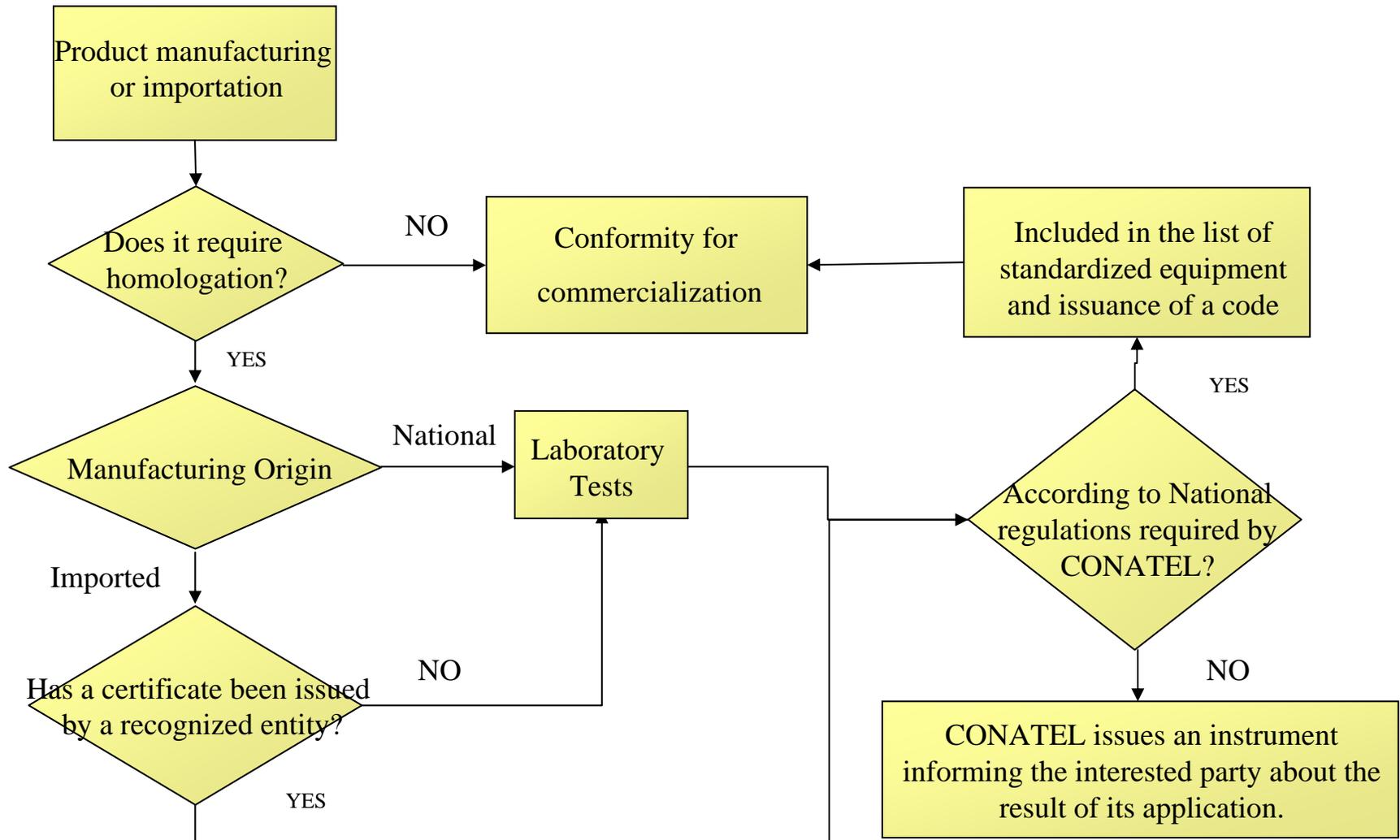
- ↻ Manufacturer
- ↻ Distributor / Importer
- ↻ Operator
- ↻ Users



- ↻ All telecommunication equipment.
- ↻ All equipment not destined to telecommunication using the radio-electric spectrum.



Homologation Procedure





Homologation Procedure

Requirements for a Homologation Application

- ↪ Letter of application
- ↪ Application form
- ↪ User Guide in Spanish (for mass-use equipment)
- ↪ Technical specifications
- ↪ Homologation certificates from other countries
- ↪ Report from an accredited laboratory
- ↪ Equipment photos and diagrams



Homologation Procedure

Regulations employed for Certification Analysis:

- ↪ COVENIN Regulations
- ↪ Legal rulings issued by CONATEL
- ↪ International regulations
- ↪ International agreements



Homologation Procedure

Certification of Equipment



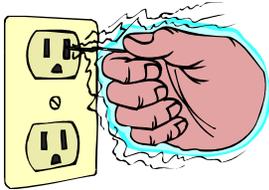
- ↗ General description of equipment
- ↗ Technical characteristics
- ↗ Photo indicating dimensions
- ↗ Functional diagrams
- ↗ Samples



Homologation Procedure

Certification of Equipment

↪ **Electric safety**



↪ **Environmental conditions**



¿What minimum aspects must be covered by tests?



↪ **Efficient use of the radio-electric spectrum**



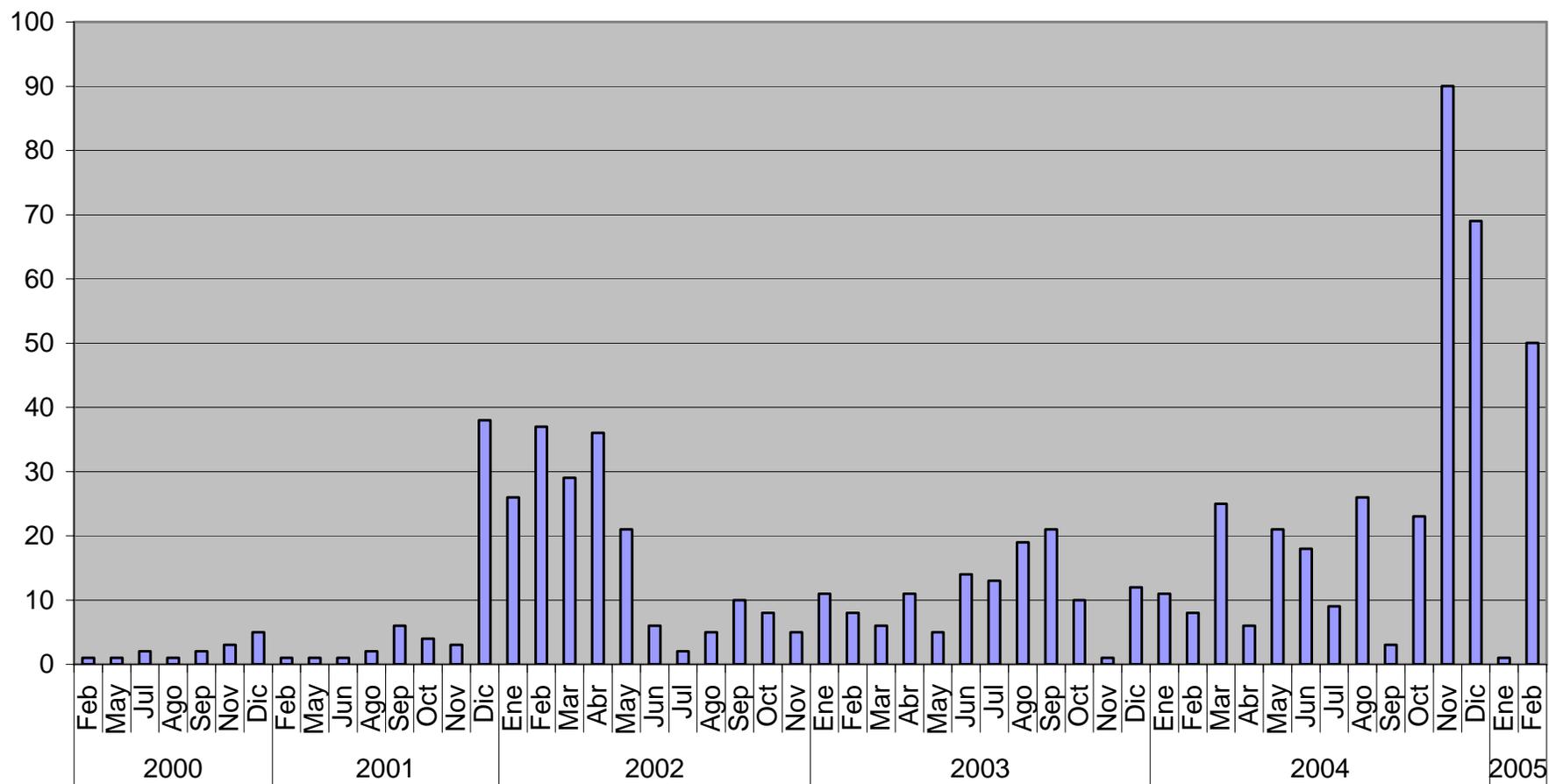
↪ **Internal functioning of existing networks**



Homologation Process in Numbers

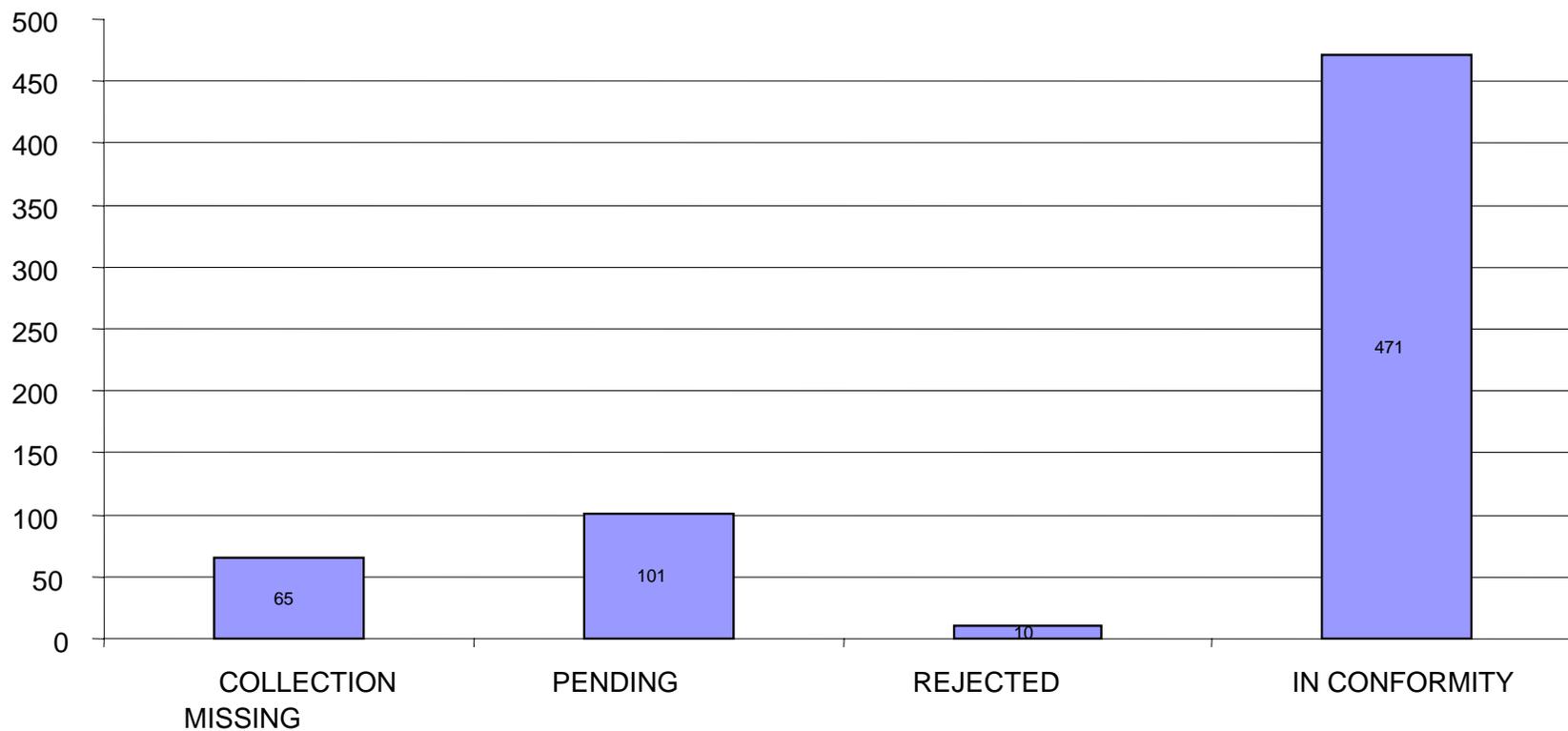


Homologation Applications received during the year 2000





Total Equipment processed to date





Future Actions



Future Actions

Approval of Homologation and Certification Regulations of Telecommunications Equipment

These Regulations have the following purpose:

- ↪ Establishing homologation and certification procedures of telecommunications equipment to ensure integrity and quality of the telecommunications network, of the radio-electric spectrum, and the safety of users, operators and third parties, according to Article 141 of the Telecommunications Organic Law.
- ↪ Establishing provisions relative to the accreditation of the organizations in charge of conducting the evaluation process of the conformity of such equipments.



Future Actions

Ongoing preparation of technical standards

The following technical rules have been developed to date:

- ↪ Technical ruling on Environmental Conditions
- ↪ Technical ruling on electromagnetic compatibility
- ↪ Technical ruling on safety of equipment connected to a telecommunications network and users, due to electric risks.



COMISIÓN NACIONAL DE TELECOMUNICACIONES
REPÚBLICA BOLIVARIANA DE VENEZUELA

THANK YOU FOR YOUR ATTENTION

República Bolivariana de Venezuela
Ministerio de Infraestructura

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