

**Conformity and Interoperability Training for AMS Region on Type
Approval testing for Mobile Terminals, Homologation Procedures,
C&I Regimes and Market Surveillance**

Campinas, Brazil, 8-12 June 2015

Conformity and Interoperability regimes of Telecommunication/ICT equipment in Costa Rica

**Homologation of telecommunication equipment experience in Costa
Rica(SUTEL)**

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Agenda

- Legal Framework of the C&I Regime for telecommunication/ICT equipment in the country Laws, Rules and Regulations, etc.
- Common problems faced due the lack of conformity and interoperability in your country
- Conformity assessment processes in place (if any)
- ICT Reference standards
- Institutions responsible for C&I activities
 - Institutions: ministry, regulator, certification and Accreditation Bodies, Laboratories
 - Responsibilities: who certifies, accept certificates, enforce the law, control borders, executes market-surveillance, etc.
- Vision of the future
 - Harmonization of C&I procedures, Capacity building needs, regional collaboration/integration, etc.

Legal Framework of the C&I Regime ICT equipment in Costa Rica

- SUTEL-RCS-332-2013: Type approval testing & homologation for mobile network terminals.
 - Define admission pre-requisites (International certifications, data sheets, manufacturer authorization, etc.)
 - Define the test protocol.
 - Accredite two laboratories for performing the tests.
- SUTEL-RCS-431-2010: Homologation for equipment which operates in "free bands" (Wi-Fi, Bluetooth, etc.)
 - Define homologation requirements (International certification, max. Power transmission, which bands could be used)

Common problems faced due the lack of conformity and interoperability in Costa Rica

- For mobile terminals.
 - Stores selling terminals without conformity tests. SUTEL regulation is 100% effective only with service operators.
 - Laboratories lack equipment for performing the complete LTE test protocol.
- For equipment which operates in "free bands" (Wi-Fi, Bluetooth, etc.)
 - A big part of the market doesn't apply for the homologation.
 - Customer doesn't seek for homologated product.

Conformity assessment processes in place

- SUTEL provides a WEB tool for terminal type approval / homologation process management: <http://homologacion.sutel.go.cr/>
- Requests, admissions, test results and certifications are made using the WEB tool.
- General public can search for SUTEL homologated models using the same WEB page.

Conformity assessment processes in place

ESPECIFICACIONES DEL TERMINAL MÓVIL

Marca:

Modelo Técnico:

Nuevo Modelo Técnico:

Modelo Comercial:

Versión de Hardware:

Versión de Software:

Versión de Firmware:

Bandas del Equipo:

Tipo de terminal:

Nivel de privacidad: Ninguna

Cantidad de SIMS por Terminal:

Tipo de Código de Seguridad:

Fotografía Delantera del Terminal (Será publicada en Internet)	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>
Fotografía Trasera del Terminal	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>
Especificaciones Técnicas del Equipo	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>
Certificados Internacionales FCC, ETSI (CE), etc.	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>
PDF de Propuesta de Distintivo de Seguridad	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>
PDF de Justificación de Cantidad de Terminales	<input type="button" value="Subir"/>	<input type="button" value="Ver"/>

Conformity assessment processes in place

[Consulta de terminales móviles homologadas por IMEI](#)



ICT Reference standards

- Mobile terminals (according with SUTEL-RCS-332-2013)
 - GSM Technical Specification (ETSI)
 - *Battery Life Measurement and Current Consumption Technique Version 6.0 22nd December 2010* (GSM association)
- “Free bands” equipment (wi-fi, bluetooth, etc.)
 - Plan Nacional de Asignación de Frecuencias (national plan for frequency assignment) defines bands and power outputs for “free bands” equipment.

Institutions responsible for C&I activities

- Institutions:
 - Ministerio de Ciencia, Tecnología y Telecomunicaciones: Defines PNAF for “free band” equipments.
 - SUTEL: Regulator, certification and accreditation body. Certifies, accept certificates, enforce the law, control borders, executes market-surveillance, etc.
 - Laboratories: FRUNO and CETCA

Vision of the future

- Improve laboratory's capacity for performing LTE test protocols.
- Enforce users knowledge about conformity importance.
- Continuous integration with the latest international standards.