



**Conformity and Interoperability Training for AMS Region on
Type Approval Testing for Mobile Terminals and NGN,
Homologation Procedures and Market Surveillance**

Campinas-Brazil, 27 June – 01 July 2016



Programme

Part I – Procedures on Conformity and Interoperability Regimes (27 June 2016)

- ITU C&I Programme: the 4 Pillars, status of the Action Plan implementation;
- Key activities and main ITU outcomes related to the ITU C&I Programme Pillars 1 and 2;
- ITU Guidelines and Feasibility Studies;
- Procedures to establish C&I Regimes (Pillar 3 and 4):
 - Definitions and conformity assessment schemes: certification, declaration of conformity, etc.;
 - Telecommunications Act provisions: placing products in the market; institutions rights and responsibilities;
 - Query for new products acceptance;
 - Issuing and validation a Certificate of Conformity/Homologation:
 - Practical example of a complete query for a mobile terminal;
 - Import procedures for testing proposals;
 - Real examples of Conformity Assessment workflow from the international experience;
 - Defining a list of ICT equipment and reference standards for conformity assessment;
 - Harmonized technical requirements in a region or sub-region;
 - Recognizing certification bodies, laboratories and test reports;
 - Mutual Recognition Agreements benefits;
 - Enforcement and market surveillance;
- Participant's presentations on the Conformity Assessment of ICT products in their respective countries. (Including procedures on certification, declaration of conformity, etc.)

Part II – Conformance and Interoperability Testing (28 June – 01 July, in the lab)

Participants will attend testing sessions prepared and executed at testing laboratories

- **Testing Laboratories– General Aspects**
 - Lab accreditation according to ISO/IEC 17025;
 - Test uncertainty;
 - Calibration.
- **Type Approval Testing for Mobile Terminals**
 - Overview on IMT technology and standards;
 - EMC requirements and measurements: Protocols and Procedures;
 - Embedded technologies on mobiles: IMT, Wi-Fi, Bluetooth, etc.;
 - SAR measurements;
 - Safety requirements;
 - Instrumentation and devices for testing and measurement;
 - Equipment Under Test (EUT) configuration.
- **Next-generation Networks (NGN) integration and interoperability testing aspects**
 - Overview on NGN principles: [ITU-T Q.3909](#) and [ITU-D Q26/2](#) Final Report;
 - NGN architecture and technologies;
 - Migration from existing networks to NGN networks;
 - NGN interoperability aspects. Protocols: SIP/H.248/Sigtran/IMS/ Quality (PESQ: [ITU-T P.862](#));
 - Network elements and related tests – *soft switch*;
 - Instrumentation;
 - Equipment Under Test (EUT) configuration.