



ITU-T Conformity and Interoperability Portal Overview

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ITU Resolutions on C&I

- ***Endorsement*** Resolution 76, Resolution 47 and decisions of Council-09
 - ***Conformity & Interoperability (C&I) programme*** to be implemented in parallel and without any delay
 - ***Parallel*** development of a ***long-term business plan*** in consultation with each region
 - ***Assist developing countries*** in establishing regional or subregional conformity and interoperability centres
 - Studies in view to introducing the use of ***ITU Mark*** for a possible future ITU Mark programme

[adapted from “ITU Information Session on Conformity and Interoperability”(Jan. 12, 2012 , Geneve)]

The ITU C&I Programm

TSB lead:

1. Conformity database
(ITU-T Conformity and Interoperability Portal)
2. Interoperability events

BDT lead:

1. Capacity building
2. Establishment of test centres in developing countries.

ITU-T C&I Portal

- ***Informative and voluntary database*** open both to ***members and non-members*** for conforming products
- Adoption of international ***ISO/IEC standards*** and guidelines or self-assessment approach
- ***On-line inputs*** directly made by Companies
- ***ITU Liability***: ITU is not participating in any testing/certification activities
- Products conforming to standards ***increase the probability of interoperability***

[adapted from “ITU Information Session on Conformity and Interoperability”(Jan. 12, 2012 , Geneve)]

ITU-T C&I Portal Overview(1)

<http://www.itu.int/net/ITU-T/cdb/Default.aspx>

ITU Conformity and Interoperability Portal

Enabling the interoperability of ICT products is one of standardization's core principles. Products developed in accordance with ITU standards should provide the interoperability needed for users of these products to make use of them anywhere in the world, regardless of who has manufactured them and who is offering the service.

The ITU Conformity and Interoperability (C&I) Portal is intended to cover a wide range of issues including the ITU C&I Programme, concepts, information on entities, laboratories, certification and accreditation bodies, SDOs, training opportunities, assistance for regional centres and links to other databases in the C&I field

- **The ITU Conformity and Interoperability (C&I) Programme Concepts and Guidance**
- **ITU Conformity Database**
- **Interoperability and "ITU Interop Events"**
- **Capacity Building & Guidelines for establishing test centres**
- **Vendors, Industry, Testing**
- **Laboratories**
- **Standards Developing Organizations and International Organizations**

Contact on conformity: conformity@itu.int

Contact on interoperability: interop@itu.int

ITU-T C&I Portal Overview(2)

■ The ITU Conformity and Interoperability (C&I) Programme Concepts and Guidance

➤ Conformity Assessment

■ Mandatory Conformity Assessment Schemes

■ Certification schemes established by various organizations

- **Global Certification Forum**
- **CTIA – The Wireless Association**
- **WiFi Alliance**
- **WiMAX Forum**
- **Metro Ethernet Forum (MEF)**
- **Broadband Forum (BBF)**
- **HomeGrid Forum**
- **IEEE Conformity Assessment Programme (ICAP)**
- **CableLabs**
- **SIP Forum**
- **IPv6**

.....from WiMax Forum...

Product Search Results

Product Name	Vendor	Cert Date	Device Type
3.5 GHz DAP Vx		15 Dec 2009	Base Station
Cisco BWX8305		4 Dec 2009	Base Station
3.5 GHz SAAP		10 Sep 2009	Base Station
3.5 GHz DAP 2x		10 Aug 2009	Base Station
3.5 GHz DAP 1x		29 Apr 2009	Base Station
9715 Lightweight Base Station for WIMAX (9715 LWBS)		31 Mar 2009	Base Station
BreezeMAX Macro 3500		19 Mar 2009	Base Station
9710 Compact Base Station for WIMAX (9710 CWBS)		17 Mar 2009	Base Station
NWA Base Station		12 Mar 2009	Base Station
DBS3900 WIMAX		9 Mar 2009	Base Station
M-WIMAX Base Station SPI-2213		15 Jan 2009	Base Station
9100 Base Station		15 Jan 2009	Base Station
RedMAX AN100U		22 Feb 2008	Base Station
PacketMAX 3000		10 Oct 2007	Base Station
Apollo		5 Jul 2007	Base Station
StarMAX 4120-3.5G		21 Sep 2006	Base Station
MicroMAX-SoC BSR		21 Sep 2006	Base Station
Macro Modular BreezeMAX 802.16e 2.5 GHz		28 Jul 2006	Base Station
BreezeMAX Micro Base Station		28 Jul 2006	Base Station
YSEMAX WRY035-B		23 May 2006	Base Station

Quick Search

Certification Date

From date: -Year -Month
To date: -Year -Month

Product Name

Vendor

<Any>

Device Type

Base Station

Spectrum

3.5 GHz Apply

Advanced Search

[adapted from "ITU Information Session on Conformity and Interoperability"(Jan. 12, 2012 , Geneve)]

ITU-T C&I Portal Overview(3)

■ ITU Conformity Database

➤ The ITU-T Conformity Database

■ ITU-T Recommendations with Test Specifications

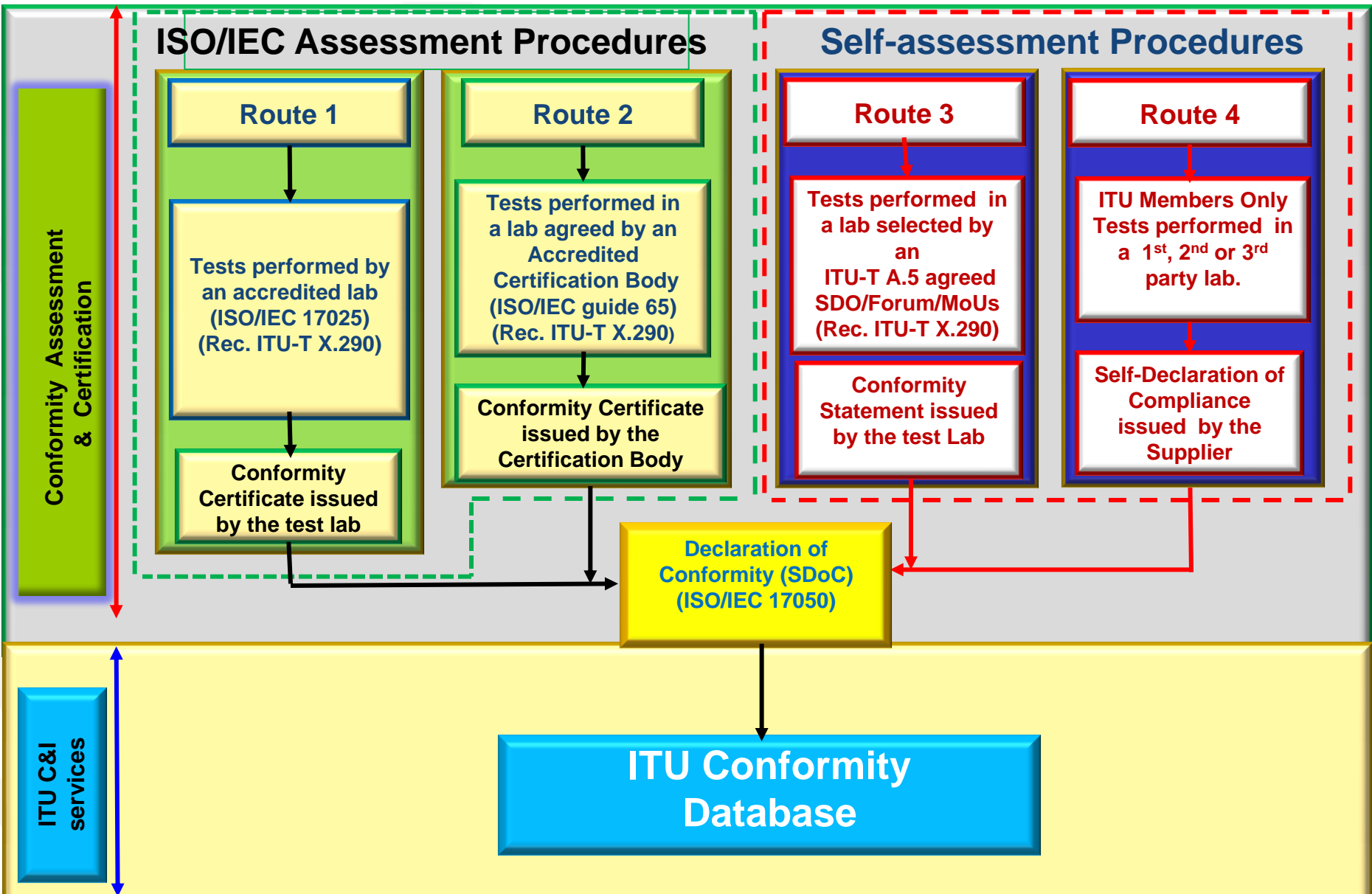
- Optical fibre cables:
- Characteristics of optical components and subsystems:
- Optical fibre submarine cable systems:
- Coding of voice and audio signals:
- Coding of moving video:
- Protection against interference – resistibility:
- Voice terminal characteristics:
- Integrated Services Digital Network (ISDN):

■ Supplier's Declaration of Conformity (SDoC)

- Company information
- Product information
- ITU-T Recommendations implemented in the product
- SDOs (Accepted under A.5) whose standards are implemented in the product
- Declaration of conformity

Route 1 ,2, 3 and 4

Populating the ITU-T conformity DB



[adapted from "ITU Information Session on Conformity and Interoperability" (Jan. 12, 2012, Geneva)]

Conformity Assessment Testing Routes

ISO/IEC assessment and self assessment procedures.

- **Route 1: *Accredited Testing Laboratories***
- **Route 2: *Accredited Certification Bodies***
- **Route 3:** Laboratories recognized by ITU A.5 qualified *SDO or Forum* or *Consortium* and other *Organization* signatory of an MoU with the ITU.
- **Route 4: *for ITU members only.*** Any 1st, 2nd or 3rd party lab

ITU-T C&I Portal Overview(4)

Interoperability and "ITU Interop Events"

➤ NGN

- Interop Event organized by HATS (Japan), supported by ITU, Tokyo, Japan, 11-13 July, 2012

➤ Home Network

- 1st G.hn Interop Testing, Geneva, Switzerland, 23-27 May 2011

➤ IPTV

- IPTV Showcasing, Telecom World-2011, Geneva, Switzerland, 24-27 October 2011
- IPTV Showcasing, Dubai, UAE, 20-22 September 2011
- 4th ITU IPTV Interop Event, Rio de Janeiro, Brazil, 18-22 July 2011
- 3rd ITU IPTV Interop Event, Pune, India, 14-17 December 2010
- 2nd ITU IPTV Interop Event, Singapore, 23-24 and 27 September 2010
- 1st ITU IPTV Interop Event, Geneva, Switzerland, 20-23 July 2010

ITU Interop Events on IPTV

- ❖ **1st Event: Geneva, ITU headquarters, 20-23 July 2010**
- ❖ **2nd Event: Singapore, 23-24 and 27 September 2010**
- ❖ **3rd Event: Pune, India, 14-17 December 2010**
- ❖ **4th Event: Rio de Janeiro, Brazil, 18-22 July 2011**



[adapted from "ITU Information Session on Conformity and Interoperability"(Jan. 12, 2012 , Geneva)]

ITU-T C&I Portal Overview(5)

- Capacity Building & Guidelines for establishing test centres
- Vendors, Industry, Testing
- Laboratories
 - USA NIST
 - AUSTRALIA
 - European
 - TUNISIA
 - FCC Q&A SITE
 - MIDDLE EAST
 - RUSSIAN FEDERATION
 - SLOVENIA
 - CANADA
 - AFRICA, CHINA, ASEAN, CIS, LATIN AMERICA TEST LABS
- Standards Developing Organizations and International Organizations

KPMG's recommendation

[Council 2012 (Geneva, 4-13 July 2012)]

- In order to facilitate the process of populating the CDB,
 - ITU should also consider limiting the number of options for entering data into the CDB to the first three Routes.
 - Implementation of these recommendations will support testing in laboratories which ensure high quality tests (laboratories which are ISO-accredited or endorsed by other SDOs, Forums, etc).

References



WTSA-08 Res. 76



- Res. 76: addresses the ***needs of Developing Countries*** for conformance and interoperability.
- ***Conformity is a first step to increase the probability of interoperability***
- ***Identification of Labs*** able to carry out tests according to the ITU-T Recommendations requirements, and training programs
- ***Voluntary-based ITU program*** promoting compliance to ITU-T Recommendations and ***possible creation of an ITU-Mark***

[adapted from “ITU Information Session on Conformity and Interoperability”(Jan. 12, 2012 , Geneve)]

WTDC Resolution 47 Hyderabad, India, 2010



- **Enhancement of knowledge** and effective application of ITU Recommendations in developing countries, including conformance and interoperability testing of systems manufactured on the basis of ITU Recommendations
- Essentially supporting and endorsing WTSA 2008 Resolution 76

[adapted from “ITU Information Session on Conformity and Interoperability”(Jan. 12, 2012 , Geneve)]

ITU Plenipotentiary Resolution 177 (Guadalajara Oct 2010)



Conformance and interoperability

- Reiterated essence of WTSA 2008 Res 76
- Added: ***invites Sector Members*** to:
 - a. **populate the pilot conformity database** according to procedures and criteria adopted by ITU-T
 - b. participate in ITU-facilitated interoperability events;
- Added : ***further invites Member States*** to **contribute to the next radiocommunication assembly in 2012** in order for it to consider and take appropriate actions as deemed necessary

[adapted from “ITU Information Session on Conformity and Interoperability”(Jan. 12, 2012 , Geneve)]