ITU-D Regional Development Forum for the Europe and CIS Region

"NGN and Broadband, Opportunities and Challenges"

Chisinau, Moldova, 4-6 May 2010

WTSA-08 Resolution 76: Conformance and Interoperability

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Counsellor
ITU/TSB

The content

1. Background of WTSA-08 Res. 76
2. Conformity
3. Interoperability
4. ITU-T Study Groups and JCA-CIT
5. Assistance to Developing Countries
6. Conclusions

1

Background of WTSA-08 Resolution 76

INTEROPERABILITY

The most complex project ever implemented by mankind is arguably the phone network.

The 7-any resources for
anywhere, anytime, anybody, for anything, with any equipment for any data-voice-video using any network-type (PSTN or IP)

It couldn't have been done without interoperable standards of ITU

Why ITU-T WTSA-08 Resolution 76

- Major concerns were raised at WTSA-08, especially from developing countries, due to lack of performance and of compliance to conformity requirement and interoperability
- Market invaded by counterfeit products
- Need of developing countries to be assisted in deploying testing facilities and in capacity building opportunities in the regions
- Other standards bodies, as well as forums and consortia, have already introduced a number of activities to address conformity and interoperability and are far ahead of ITU.

TSB Director's Recommendations endorsed by the Council-09

1. The implementation of the proposed conformity assessment programme
2. The implementation of the proposed interoperability events programme
3. The implementation of the proposed human resources capacity building
4. The implementation of the proposed recommendations to assist establishment of test facilities in developing countries

Council further agreed that the TSB Director should report to the next Council on the implementation of these recommendations. This report provides a summary of follow-up activities since Council-09.

2

Conformity

Ability of a product to meet the requirement(s) of a standard.
A first step to increase the probability of interoperability

Conformity assessment

Industry issues:

- Increasing business opportunities
- time to market, costs for testing
- Increase of market outreach thanks to Mutual Recognition Agreements and Arrangements, no TBT issues)

End users issues:

- Requirements for Quality of Service
- Interoperability and legacy to existing infrastructure
- Costs for non conformity & non interoperability

The ITU Pilot Conformity Database: fundamental concepts

- **Voluntary basis & free** programme open to ITU members. Non-members may participate on a case by case basis

- **Testing**
- 1st , 2nd, 3rd party accredited labs conformity assessment
- 3rd party accredited certifiers

- **Supplier's Declaration of Conformity (SDoC)** (ISO/IEC 17050)

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ITU-T Pilot Conformity Database

- **The vendor**: visibility in the marketplace of products conform to ITU-T Recommendations

- **The ITU-T Study Groups**: develop Recommendations with a view to conformity and interoperability testing, increasing quality of standards

- **Customers:** easy finding of conform products

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The ITU Pilot Conformity Database:

- Company name
- ITU product code **C-1234567**
- Product name
- Product Category
- ITU-T Recommendations
- Standards by ITU-T A.5 recognized SDOs, Forums and Consortia (normative ref)
- Supplier's Declaration of Conformity
- Search facilities
- Others…

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Supplier's Declaration of Conformity (ISO 17050-1)

http://www.itu.int/net/ITUT/cdb/Default.aspx

- Product category & Name of product
- ITU-T Recs and standards from Rec. ITU-T A.5 entities implemented
- Testing in accredited labs or through a 3rd party certifier
- Acceptance of liability for the Supplier's Declaration of Conformity

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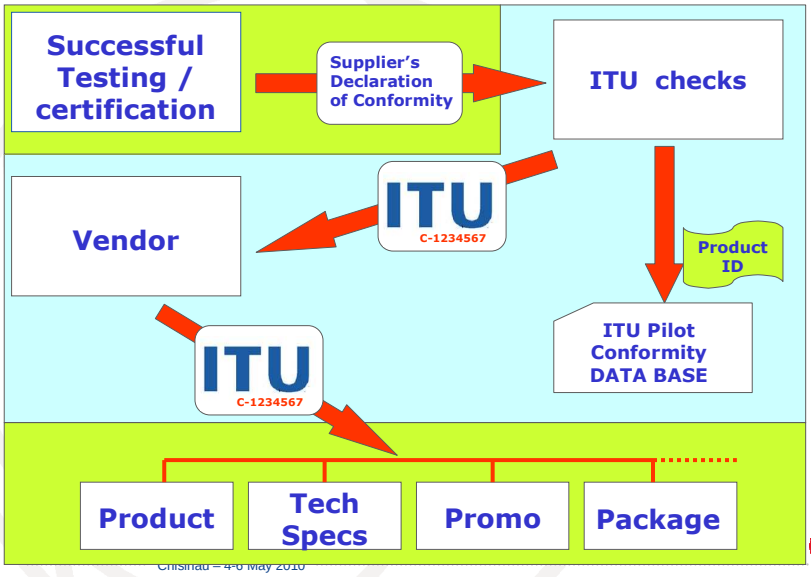
The ITU Conformity Programme



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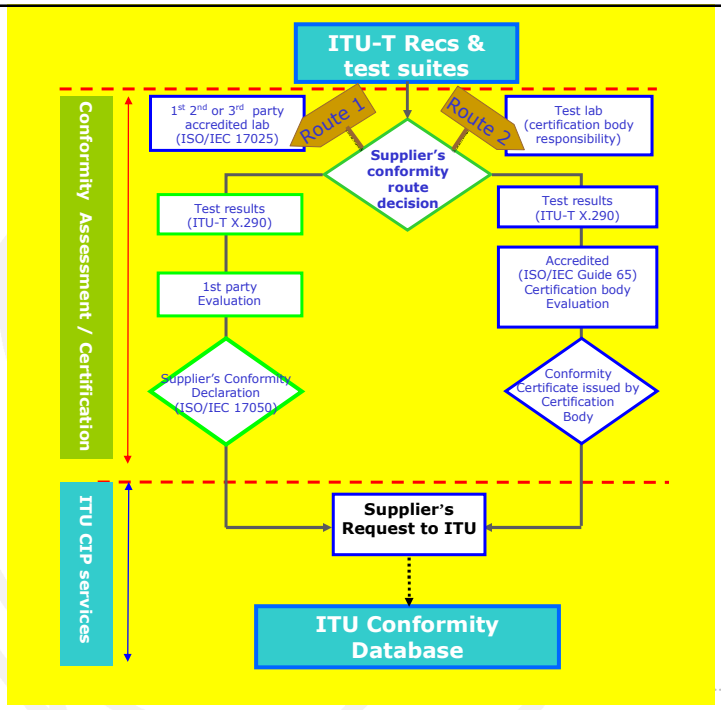
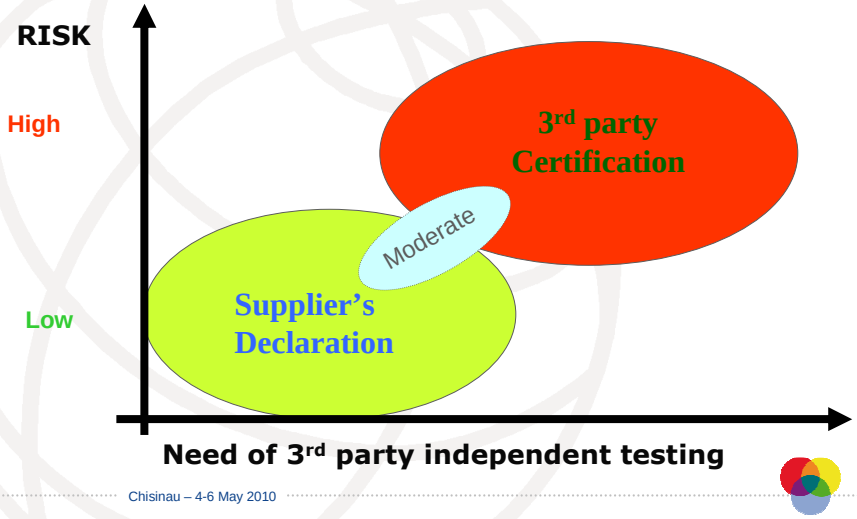


Implementation of the ITU Conformity Programme

Supplier's Declaration / Certification – Risk relationship



International Telecommunication Union

Product Registration

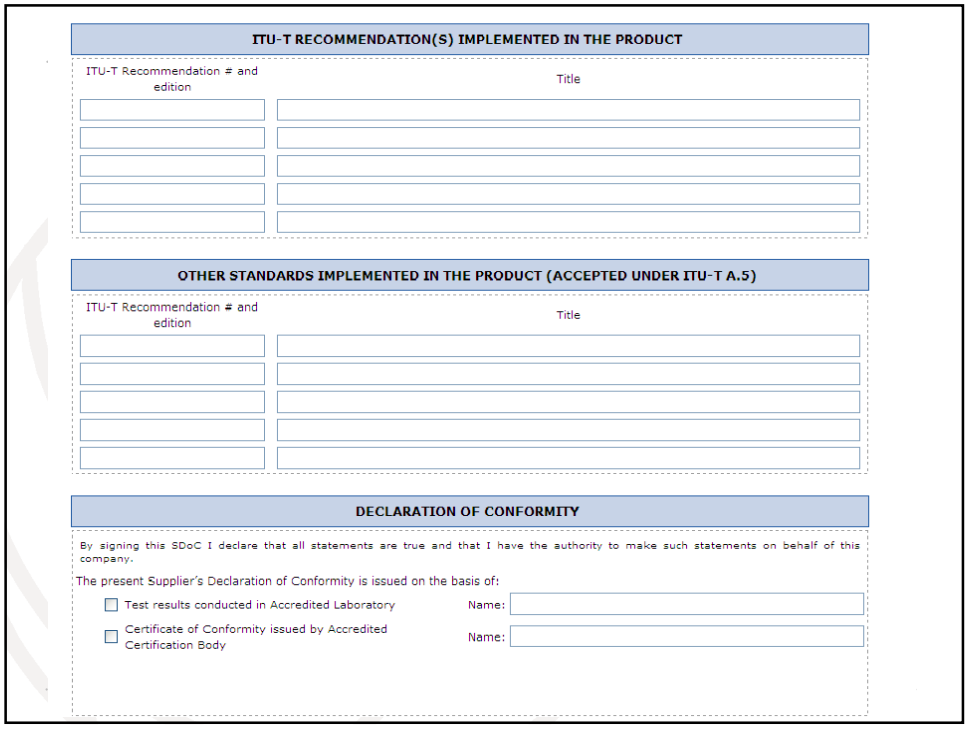
Please complete the information requested in each field below. One may advance by tabbing from field to field. Once completed, click on the button below to **download for signature**, **SIGN** and **SCAN** completed form and send by E-Mail to: **tsbconformity@itu.int**

Company

Name of Signatory:		Title:	
Full Company Name:			
Street/PO Box:		Town/City:	
Post/ZIP Code:		Country:	Afghanistan - AFG
Telephone:		Company E-Mail:	
Website:			

PRODUCT

Name of product:	
Enter a Category:	
	(eg DSLAM, modem, ADSL, optical fibre, home networking, WDM, multimedia, IPTV etc.)
Comments/Remarks:	



ITU-T RECOMMENDATION(S) IMPLEMENTED IN THE PRODUCT

ITU-T Recommendation # and edition	Title

OTHER STANDARDS IMPLEMENTED IN THE PRODUCT (ACCEPTED UNDER ITU-T A.5)

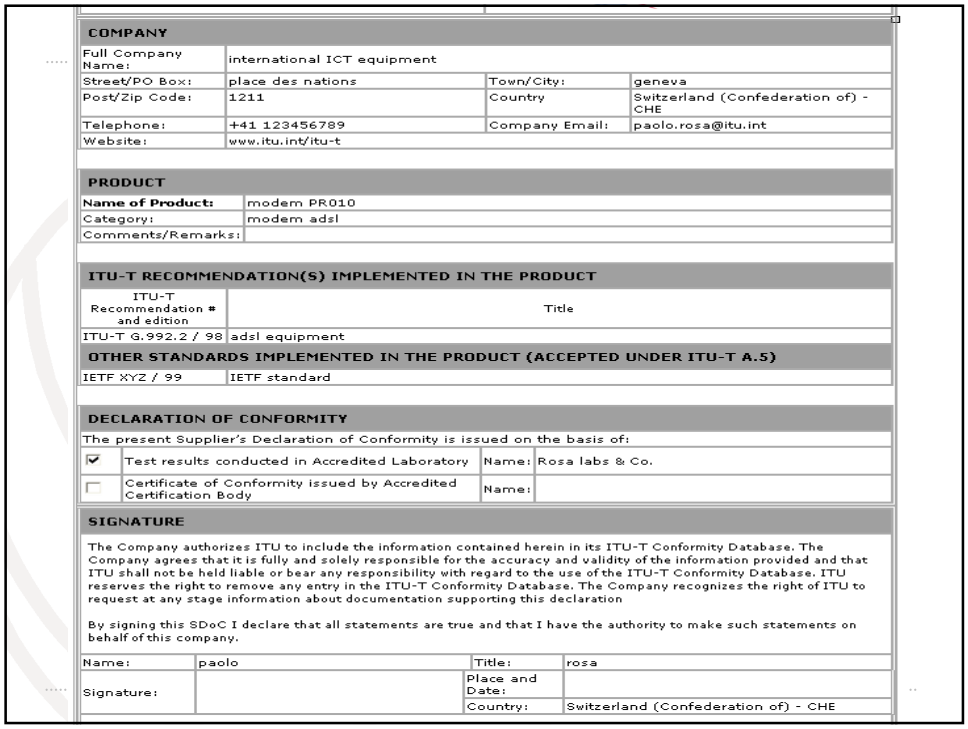
ITU-T Recommendation # and edition	Title

DECLARATION OF CONFORMITY

By signing this SDoC I declare that all statements are true and that I have the authority to make such statements on behalf of this company.

The present Supplier's Declaration of Conformity is issued on the basis of:

- ☐ Test results conducted in Accredited Laboratory — Name:
- ☐ Certificate of Conformity issued by Accredited Certification Body — Name:



COMPANY

Full Company Name:	international ICT equipment		
Street/PO Box:	place des nations	Town/City:	geneva
Post/Zip Code:	1211	Country	Switzerland (Confederation of) - CHE
Telephone:	+41 123456789	Company Email:	paolo.rosa@itu.int
Website:	www.itu.int/itu-t		

PRODUCT

Name of Product:	modem PR010
Category:	modem adsl
Comments/Remarks:	

ITU-T RECOMMENDATION(S) IMPLEMENTED IN THE PRODUCT

ITU-T Recommendation # and edition	Title
ITU-T G.992.2 / 98	adsl equipment

OTHER STANDARDS IMPLEMENTED IN THE PRODUCT (ACCEPTED UNDER ITU-T A.5)

IETF XYZ / 99	IETF standard

DECLARATION OF CONFORMITY

The present Supplier's Declaration of Conformity is issued on the basis of:

☑	Test results conducted in Accredited Laboratory	Name:	Rosa labs & Co.
☐	Certificate of Conformity issued by Accredited Certification Body	Name:	

SIGNATURE

The Company authorizes ITU to include the information contained herein in its ITU-T Conformity Database. The Company agrees that it is fully and solely responsible for the accuracy and validity of the information provided and that ITU shall not be held liable or bear any responsibility with regard to the use of the ITU-T Conformity Database. ITU reserves the right to remove any entry in the ITU-T Conformity Database. The Company recognizes the right of ITU to request at any stage information about documentation supporting this declaration

By signing this SDoC I declare that all statements are true and that I have the authority to make such statements on behalf of this company.

Name:	paolo	Title:	rosa
Signature:		Place and Date:	
		Country:	Switzerland (Confederation of) - CHE

3

Interoperability

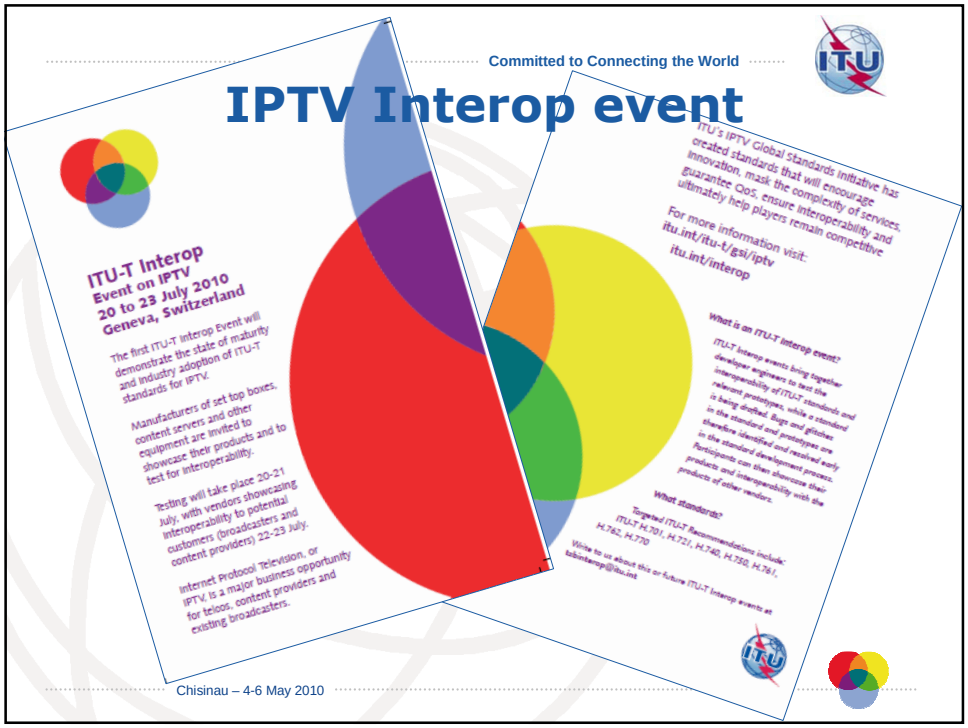
Ability of two or more systems or applications or network management products and services from different suppliers to exchange information and to mutually / fruitfully make use of it

Interoperability initiatives

- TSB facilitator and co-organizer, calendar of interoperability events & partnership with relevant SDOs/forums/consortia
- Possible hot topics:
  - G.9960 (Home Networking); HomeGrid Forum
  - VDSL; Broadband Forum
  - GPON (Gigabit-capable Passive Optical Network)

Interested Companies SDOs, Forums, Consortia contact TSB (interop@itu.int).

IPTV Interop event



ITU-T Interop Event on IPTV, Geneva, 20-23 July 2010

- Study Groups developed a consistent set of technical specifications or standards under the umbrella of the IPTV Global Standards Initiative (IPTV-GSI).
- The first IPTV Interop event will demonstrate the state of maturity and industry adoption of ITU-T standards for IPTV, for example: H.701,H.721,H.740, H.750, H.761,H.762,H.770. Manufacturers of set top boxes, content servers and other equipment are invited to showcase their products and test for interoperability
- The event will be held:
  - From: Tuesday 20 July to Friday 23 July 2010
  - Outline Programme:
    20-21 July - Conformity and Interoperability Testing
    22-23 July - Showcasing

4

ITU-T Study Groups and JCA-CIT

The ITU-T

- **ITU Recommendations**
  - truly global in nature respecting of openness, transparency and non-discrimination, as recognized in international agreements."
- **Conformity assessment and Interoperability**
  - Cost effective solutions able to meet both the needs of vendors and of customers

TSB studies in progress with…

- Experts and External Organizations
- IEC, ISO,
- Regulators,
- Laboratories,
- Training institutions
- Governments
- UNIDO, WTO
- Accreditation bodies (ILAC, IAF, BIPM)
- Private sector, members and non-members of ITU

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The ITU-T Study Groups

- More efforts in preparing Recommendations in view of Conformity Assessment and Interoperability testing
- Maintain a list of Recommendations where test suites already available from ITU or other SDOs, Forums or Consortia or to be produced

Chisinau – 4-6 May 2010

Regional Consultation Meetings 2010

- Americas – 6 July, Quito, Ecuador
- Briefing in Brasilia 3rd week July (planned)
- Africa – Nairobi, Kenya (planned)
- Asia Pacific – September – (Sydney, Australia ?)

Objectives:

- Continue the discussion to better implement the action lines adopted by Council-09 and the Conformity and Interoperability programme
- Improve the ITU pilot conformity database addressing needs of developing countries

Contents Consultation meetings

Discussions also based on contributions:

- Why Conformity ad Interoperability ?
- Resolution 76 : a short review
- The action lines decided by the Council-09
- Impact on developing countries: benefits of the ITU C&I Programme, costs of lack of conformity and/or interoperability
- Impact on industry, testing, MRAs, associated costs, time to market
- Improvements to the ITU pilot database
- Encouraging interoperability testing

Audience

- Industry / Vendors
- Administrations
- Operators/service providers
- Standards developers
- Regulators
- Laboratories
- **Civil society**

ITU-T Joint Coordination Activity on Conformity and Interoperability Testing (JCA-CIT)

- To facilitate information sharing and collaboration with the participation of ITU-T Study Groups experts and relevant outside bodies such as ETSI, ISO and OMA.
- Seeking of input with regard to the implementation of tasks stated in WTSA-08 Resolution 76
- Development of a common understanding of Conformance vs. Interoperability testing
- Developing a roadmap for the implementation of the four action lines agreed by the Council-09 and taking into account a draft action plan developed by TSB (live document)

5

Assistance to Developing Countries:

Capacity Building and Test Centres

Capacity building and test centers

- The ITU-T Secretariat (TSB) is implementing implement proposals on human capacity building in close collaboration with the ITU-D Secretariat (BDT):
  - assign more resources
  - hold workshops and tutorials on conformity assessment and interoperability on the BDT project on International Telecommunication Testing Center.
- The ITU-T will assist in the establishment of test facilities in developing countries and in cooperation with international institutions is planned (UNIDO, International Laboratory Accreditation Cooperation - ILAC, International Accreditation Forum - IAF,…)
- A project is in progress to establish a test center in Tanzania

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6

Conclusions

Chisinau – 4-6 May 2010

What we said

- Resolution 76 : the reply to the needs of Developing Countries
- Conformity to increase probability of interoperability
- Created the voluntary based and free pilot conformity database to be populated since now
- ITU-T interop events started
- TSB committed to the implementation of the Res. 76 requirements
- Capacity Building activities and creation of test centers started in cooperation with the BDT

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Addressing interoperability is one of the very reasons for founding ITU

Study Groups and Membership engaged in producing Recommendations suitable for testing

"there is no point in developing test suites if ITU does not give some recognition to manufactures having their equipment tested to ITU-T Recommendations"

Chisinau – 4-6 May 2010

Thank you

conformity@itu.int
interop@itu.int

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Additional slides

Chisinau – 4-6 May 2010

WTSA-08 Resolution 76

"Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU mark programme"

Res.76: instructs the Director of TSB

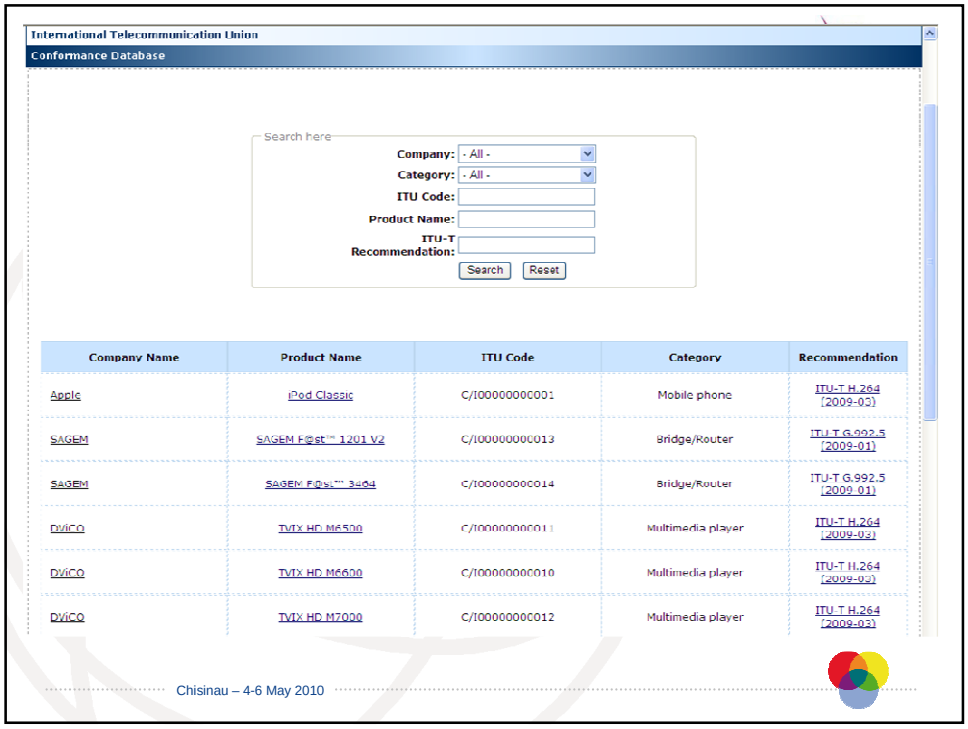
- in cooperation with BR and BDT, to **identify and prioritize the problems** faced by developing countries related to achieving interoperability of ICT equipment and services
- to study the **overall effect on ITU and manufacturers, legal, national and international regulatory implications**, cost of set up and location of testing facilities, measures to build the necessary human resource capacities
- to carry out the **necessary studies**, also involving experts and external entities, with the **view to introduce the use of ITU Mark** as a **voluntary programme** permitting manufacturers and service providers to make a **visible declaration** that their equipment conforms to ITU-T Recommendations and to study the relevant financial and legal implications for the ITU-T and ICT industries
- to submit the **result of these studies to Council-09** for its consideration and required actions

Council-09 endorsement:

- 1. The implementation of the proposed conformity assessment programme
- 2. The implementation of the proposed interoperability events programme
- 3. The implementation of the proposed human resources capacity building
- 4. The implementation of the proposed recommendations to assist establishment of test facilities in developing countries
- Council further agreed that the TSB Director should report to the next Council on the implementation of these recommendations. This report provides a summary of follow-up activities since Council-09.

ITU Consultation on Conformance Assessment and Interoperability Testing Geneva, 20-21 July 2009

- A – The concept of the ITU conformity programme
- B – Interoperability problems
- C – International legal issues
- D – Mutual recognition agreements
- E – GMPCS
- F – Lessons from other marks
- G – Bibliography
- H – Definitions
- I – List of laboratories
- J – List of ITU-T Recommendations
- M – Report on the Consultation on conformance assessment and interoperability testing
- R.K. Siddhartha: Essentiality of ITU Mark
- Relevant template for contributions
- Arab proposal
- Julio Cesar Fonseca: Technical Regulations Manager: The certification and approval regulation from ANATEL - Brazil
- Regulation for telecom product certification and approval, ANATEL - Brazil
- Maria de Fátima N.C. Rosolem: CPqD and Julio Cesar Fonseca: Brazilian Structuring in Accreditation for Telecommunications Products ITU Mark (Res. 76) - ANATEL - Brazil


International Telecommunication Union
Conformance Database
Search here
Company: - All -
Category: - All -
ITU Code:
Product Name:
ITU-T Recommendation:
Search
Reset
Company Name | Product Name | ITU Code | Category | Recommendation
Apple | iPod Classic | C/I00000000C001 | Mobile phone | ITU-T H.264 (2009-03)
SAGEM | SAGEM F@st™ 1201 V2 | C/I00000000C013 | Bridge/Router | ITU-T G.992.5 (2009-01)
SAGEM | SAGEM F@st™ 3464 | C/I00000000C014 | Bridge/Router | ITU-T G.992.5 (2009-01)
DViCO | TVIX HD M6500 | C/I00000000C011 | Multimedia player | ITU-T H.264 (2009-03)
DViCO | TVIX HD M6600 | C/I00000000C010 | Multimedia player | ITU-T H.264 (2009-03)
DViCO | TVIX HD M7000 | C/I00000000C012 | Multimedia player | ITU-T H.264 (2009-03)
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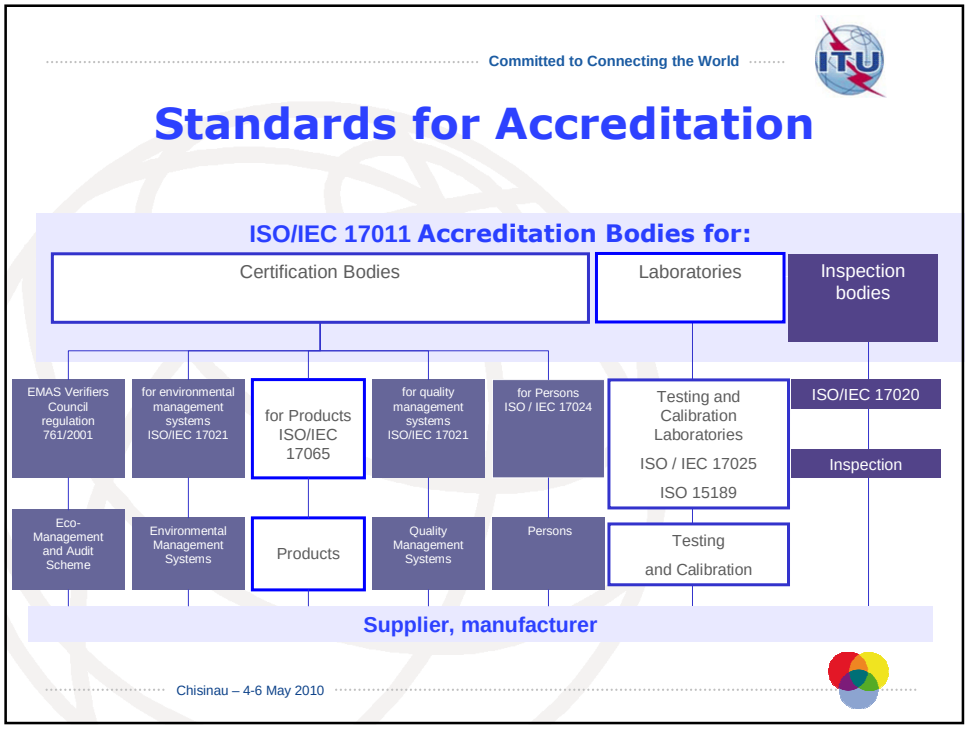
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Standards for Accreditation
ISO/IEC 17011 Accreditation Bodies for:
Certification Bodies
Laboratories
Inspection bodies
EMAS Verifiers Council regulation 761/2001
for environmental management systems ISO/IEC 17021
for Products ISO/IEC 17065
for quality management systems ISO/IEC 17021
for Persons ISO / IEC 17024
Testing and Calibration Laboratories
ISO / IEC 17025
ISO 15189
ISO/IEC 17020
Inspection
Eco-Management and Audit Scheme
Environmental Management Systems
Products
Quality Management Systems
Persons
Testing and Calibration
Supplier, manufacturer
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