



ITU CONFORMITY AND INTEROPERABILITY PROGRAMME

PILLAR 3 AND 4

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The Telecommunication Development Bureau Side



- Capacity building
- Establishment of test centres in developing countries.

Meeting with in-deep consideration for test centres and Capacity Building in the Regions

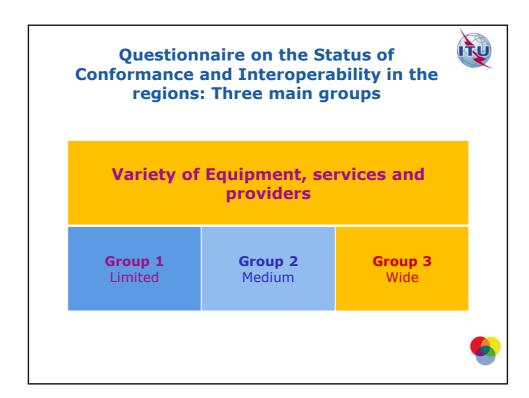
Held:

- ❖ Africa (Ghana)
- CIS (Moscow)
- Americas

Next:

- ❖ Arab States (Tunis, Forum 5-7, Training 8-10 Nov 2012)
- Asia Pacific (2013)







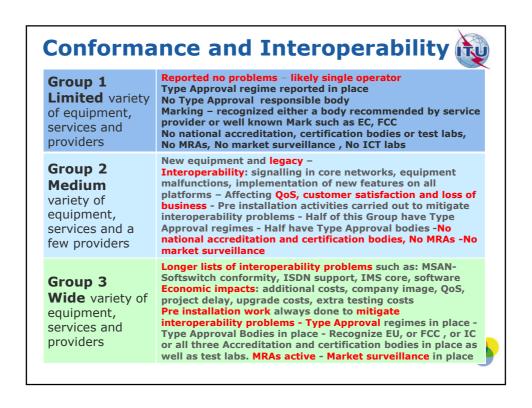
Questionnaire Outline

June 2011 – 35 replies

- Fixed and Mobile Networks (technologies, services, equipment)
- Conformance and Interoperability
 - >legacy, Impact of C&I problems, type approval strategies in place, recognition of marking schemes (FCC, CE, ...)
 - >measures to mitigate C&I problems
 - National Accreditation Bodies, Certification Bodies and Test Labs for Type Approval established?
 - ➤ MRAs with other parties?
 - ➤ Market Surveillance procedures and practices
- Training and Capacity Building initiatives
- Culture and Readiness to participate in the ITU C&I Programme



Fixed & Mobile networks		
Group 1 Limited variety of equipment, services and providers	<pre>Internet/IP Gateway services 2G and 3G GSM network services</pre>	No equipment listed in response, referred/deferred to service provider for detailed information
Group 2 Medium variety of equipment, services and a few providers	TDM voice, fax, international voice, data Internet/IP ADSL, Cybercafe, VoIP NGN Softswitch voice, data 2G voice, local and international SMS, prepaid 3G international and local SMS, data and Internet	Tendence to have a dominant equipment supplier
Group 3 Wide variety of equipment, services and providers	TDM voice, data, ISDN Internet/IP VoIP, data, email, wimax, metro ethernet NGN Softswitch voice, fax, ISDN NGN IMS VoIP, digital fax 2G GPRS/EDGE, circuit switched data, voice, SMS 3G HPSA + mobile broadband, voice, AMR-WB voice, CS video call, SMS, R99 PS data	Tendence to have a wide mix of suppliers



Training and Capacity Building



Group 1

Limited variety of equipment, services and providers Interested in follow-up training/capacity building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177

Group 2

Medium variety of equipment, services and a few providers Would participate in development of regional program in capacity building

Interested in opportunities to establish national, sub-regional and regional test centres

Group 3

Wide variety of equipment, services and providers

No ICT Labs capable of hosting test events or ITU activities



Training and Capacity Building



Group 1

Limited variety of equipment, services and providers Interested in follow-up training/capacity building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177

Group 2

Medium variety of equipment, services and a few providers Would participate in development of regional program in capacity building and expert tutorials

Group 3

Wide variety of equipment, services and providers

Interested in opportunities to establish national, sub-regional and regional test centres

Availability of ICT Labs to host test events or ITU activities



Questionnaire: Overall results



- Highlighted lack of interoperability
- ITU to provide assistance and relief
- capacity building and access to expertise is an essential ingredient
- initiatives to promote the use of global testable standards
- test events for compliance and interoperability welcome



Guidelines for Developing Countries for Establishing Test Labs in Different Regions

http://www.itu.int/ITU-D/tech/ConformanceInteroperability/ConformanceInterop/indexGuidelines.html

- Status in the regions and needs
- Funding and Training Sources
- Criteria to establish Accreditation and Conformity Assessment Bodies -International Telecommunications Testing Centres (ITTCs)
- Economics and Cost Implications for ITTCs
- Roadmap for ITTC rollout



Needs in Developing Countries for Test Labs



- Conformity Assessment Bodies to contribute to create an orderly telecom apparatus market place
- Once standards and test suites are in place, test labs can check equipment for compliance
- Sharing test labs resources amongst countries and regions may lowering overall costs while continuing addressing regional priorities
- A robust framework (following international procedures – ISO/CASCO) needed for trust and confidence in test results and among test labs



Conclusions from Guidelines



- Members to:
 - > advise the ITU of *interoperability problems*
 - > Regulators to establish market access requirements
 - > assess legislation and regulations
 - > prioritize areas of concern for products and systems
- Establishment of Accreditation Bodies and approach to MRAs and MLAs
- Establishment of *Test Centres* on a regional basis, wide areas and possibly common infrastructures

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Steps to Establish an ISO 17025 Compliant Test Lab



- ➤ Management requirements and systems
- Lab requirements, test methods and procedures, audits, equipment handling, technical competence
- ➤ Document control, calibration records and staff records
- ➤ Handling of test reports and calibration certificates
- >Service to customers and handling of complaints



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Funding and Training Sources



- ➤UNIDO, major Banks in each region, specialized funding agencies for telecoms projects and others
- Requirements to access funds vary from low interest loans, to grants, seed funding and cost underwriting
- Repository of international telecom training organizations
- Costs of training may vary from just travel to and from location, to government and supplier subsidized training, to private for-profit fully costed training.

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ITU Training activities on C&I



Dedicated exclusively to C&I (http://www.itu.int/ITU-D/tech/events/index.html)

- Workshop on NGN Conformity and Interoperability Testing Centre(s), Nairobi (Kenya), 2-4 August 2010
- ITU Regional Seminar for the Africa Region on Conformance and Interoperability Testing Center(s), Accra (Ghana), 4-6 July 2011
- ITU Regional Seminar for the CIS Countries on Conformance and Interoperability Testing Center(s), Moscow (Russian Federation), 9-11 November 2011
- Next: Africa and Arab regions, Tunis 5-7 Nov 2012

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Capacity building and test centres

- ITU is implementing proposals on human capacity building
- ITU will assist developing countries in the establishment of test facilities and in cooperation with international institutions:
 - > UNIDO
 - International Laboratory Accreditation Cooperation (ILAC)
 - ➤ International Accreditation Forum (IAF),...)
 - Labs and R&D institutions



What's next in 2013 Pillar 3



- Forum and Training on Conformance and Interoperability for ASP CIS Region
- Training on Conformance and Interoperability for Arab and Africa Regions
- Training on Conformance and Interoperability for AMS Region

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What's next in 2013 Pillar 4



- Conformity and Interoperability Assessment on Regional Basis: Collaboration with Regional and Subregional Organizations for establishing a common C&I Regime and Mutual Recognition Arrangements
- Guidelines on establishing Conformity Assessment Test Labs and Regimes in different Regions
- Guidelines for the development, implementation and management of Mutual Recognition Agreements (MRAs)
- Initiate a pilot project for the development of a regional test facility in Asia Pacific
- Sub-Regional Workshop for SADC Countries to promote the development and implementation of Mutual Recognitions Agreements



ARB, AFR and ITU Cooperation 🔊



- * Analysing the status of resources in the regions
- Finding regional agreements about possible locations for resources/ and testing capabilities
- * Participation in Capacity Building activities, accreditation and certification
- * Participation in the creation of regional test laboratories





