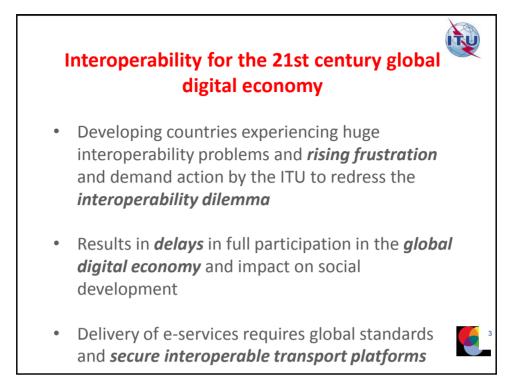
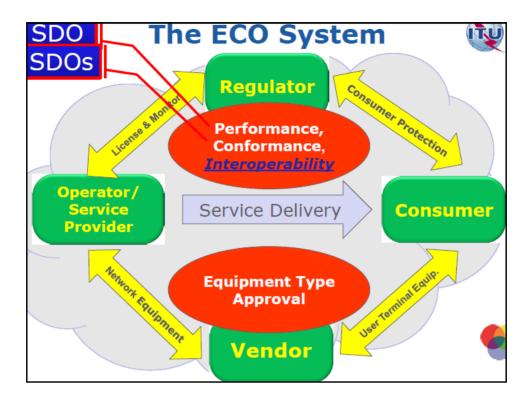


Lack of Standards or no Conformity to Standards Poor products performance, poor requirements Poor products on the market No difference between original and counterfeit equipment Poor quality or no service Company image & market share No Interoperability Poor or lack of broadband services to peoples



Interoperability for a true Access to Broadband

- ITU's global responsibility to *ensure the interoperability* and efficiency of international telecommunications;
- Growing *concerns* about and evidence of *non-compliance* with ITU-T Recommendations on *performance, safety and interoperability*;
- **Counterfeit or illegally imported** non-compliant and poor quality products, in particular in developing countries;
- Need to *facilitate market penetration* by avoiding multiple testing and certification, resulting from *regulatory and customer reactions to the risks of non-compliance*



Equip. Category	Problem	Main Reasons	Effects
alog Voice teway	Can't forward dialed digits to next devise.	Feature not supported and not mentioned on Data Sheet although it is basic requirements for operation.	Another device should be used.
ice interface rd	Caller ID feature is not working on certain mode of operation although it is globally mentioned on Spec. Sheet that it is supported.	New hardware interface card should be used.	The customer was unsatisfied and switched to another vendor.
ta Switch	Per Packet load sharing on multi-trunk lines is not working although it is mentioned in the Spec. Sheet	Function not available in current software release.	Additional devices need to be used to support the required function.
MAX se-station	Antenna diversity should be supported It is available on the configuration menu but not working.	The diversity is actually not working when it was enabled on the software	support Team stated that the diversity is not working in the current software and may be active in next version

Authority for Action from all the 键 TU's highest decision making bodies

ITU World Telecommunication Standardization Assembly (WTSA-08) **Resolution 76**

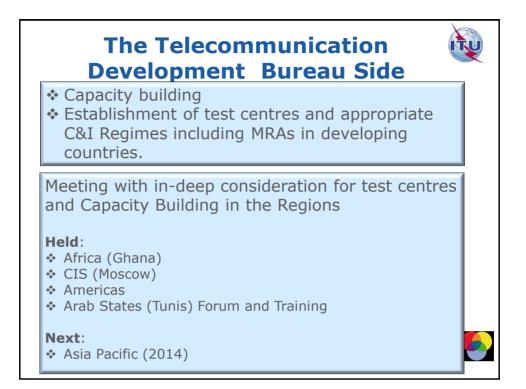
ITU World Telecommunication Development Conference (WTDC-14) **Resolution 47**

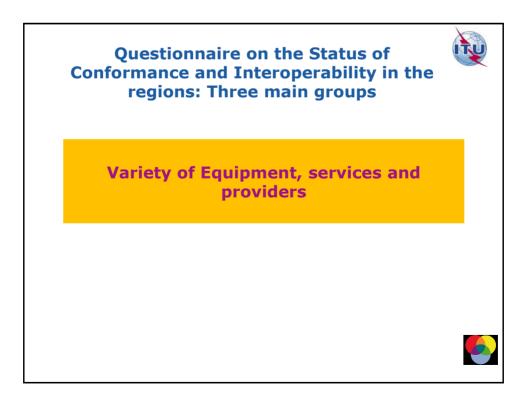
ITU Plenipotentiary Conference (PP-10) **Resolution** 177

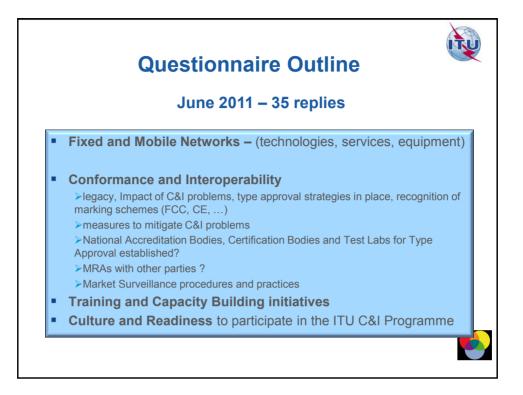
Radiocommunication Assembly 2012 Resolution 62

ITU Council Decisions





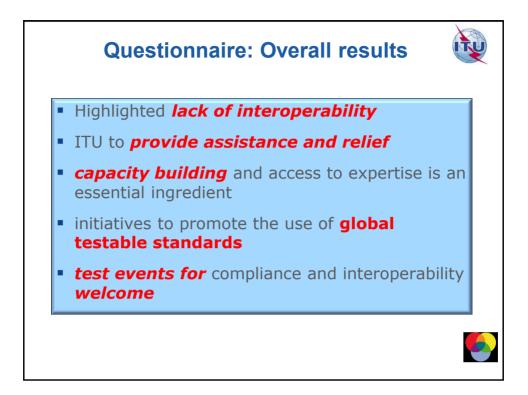


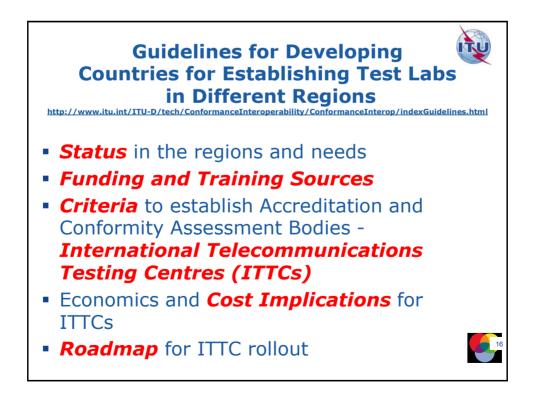


Conformance and Interoperability 酸				
Group 1 Limited variety of equipment, services and providers	Reported no problems – likely single operator Type Approval regime reported in place No Type Approval responsible body Marking – recognized either a body recommended by service provider or well known Mark such as EC, FCC No national accreditation, certification bodies or test labs, No MRAs, No market surveillance , No ICT labs			
Group 2 Medium variety of equipment, services and a few providers	New equipment and legacy – Interoperability: signalling in core networks, equipment malfunctions, implementation of new features on all platforms – Affecting QoS, customer satisfaction and loss of business - Pre installation activities carried out to mitigate interoperability problems - Half of this Group have Type Approval regimes - Half have Type Approval bodies -No national accreditation and certification bodies, No MRAs -No market surveillance			
Group 3 Wide variety of equipment, services and providers	Longer lists of interoperability problems such as: MSAN- Softswitch conformity, ISDN support, IMS core, software Economic impacts: additional costs, company image, QoS, project delay, upgrade costs, extra testing costs Pre installation work always done to mitigate interoperability problems - Type Approval regimes in place - Type Approval Bodies in place - Recognize EU, or FCC, or IC or all three Accreditation and certification bodies in place as well as test labs. MRAs active - Market surveillance in place			

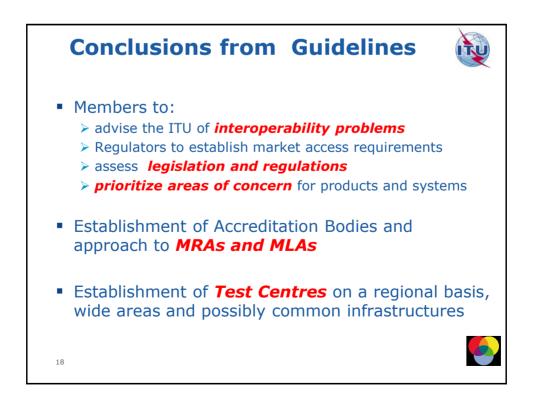
Training and Capacity Building 💓				
Group 1 Limited variety of equipment, services and providers	Interested in follow-up training/capacity building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177			
Group 2 Medium variety of equipment, services and a few providers	Would participate in development of regional program in capacity building Interested in opportunities to establish national, sub-regional and regional test			
Group 3 Wide variety of equipment, services and providers	centres No ICT Labs capable of hosting test events or ITU activities			

Group 1Limited variety of equipment, services and providersInterested in follow-up training/capacity building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177Group 2Would participate in development of regional program in capacity building and expert tutorialsMedium variety of equipment, services and a few providersInterested in opportunities to establish national, sub-regional and regional test centresGroup 3Wide variety of equipment, canaices and of equipment, canaices and of equipment, canaices andAvailability of ICT Labs to host test events or ITU activities	Training and Capacity Building				
Group 2 Medium variety of equipment, services and a few providersregional program in capacity building and expert tutorialsGroup 3 Wide variety of equipment,Interested in opportunities to establish national, sub-regional and regional test centresGroup 3 Wide variety of equipment,Availability of ICT Labs to host test	Limited variety of equipment, services and	building related to WTDC 2010 Res 47, WTSA 2008 Res 76, PP-10 Res177			
Wide variety of equipment, Availability of ICT Labs to host test	Medium variety of equipment, services and a	regional program in capacity building and expert tutorials Interested in opportunities to establish			
providers	Wide variety of equipment, services and				













New Guidelines on C&I (2013- 2014) ITI Guidelines for the Development, Implementation and Management of Mutual Recognition Arrangements/Agreements on Conformity Assessment (2013) These guidelines promote the understanding and establishment of Mutual Recognition Agreements (MRAs) MRAs on conformity assessment are intended to promote efficiency and resource sharing, as well as to streamline the flow of products among participating Parties such as ITU Member States and private sector organizations, such as testing laboratories Feasibility Study for the establishment of a Conformance Testing Centre (2013)This feasibility study describes environments, procedures and methodologies to be adopted to establish, manage and maintain a testing center covering different kinds of conformance and interoperability testing areas Establishing Conformity and Interoperability Regimes - Basic Guidelines These Guidelines address challenges faced by developing countries as they plan and review their own C&I regimes. Aspects covered by this publication include, inter alia, conformity assessment procedures; legislation to promote an orderly equipment marketplace; surveillance; coordination across regulatory agencies; and relevant international standards.

ITU Training activities on C&I Dedicated exclusively to C&I (<u>http://www.itu.int/ITU-</u> <u>D/tech/events/index.html</u>)
 Workshop on NGN Conformity and Interoperability Testing Centre(s), Nairobi (Kenya), 2-4 August 2010
 ITU Regional Seminar for the Africa Region on C&I Testing Center(s), Accra (Ghana), 4-6 July 2011
 ITU Regional Seminar for the CIS Countries on C&I Testing Center(s), Moscow (Russian Federation), 9-11 November 2011
 Africa and Arab Regions, Tunis 5-7 Nov 2012
 ARB Region, Tunis 2-6 April 2013 (EMC Compatibility)
 Africa Region, Tunis 14-18 October 2013 (EMC Compatibility)
 Americas Region, Campinas, 24-28 June 2013 (EMC Compatibility)
 ARB Region, Tunis 17-22 March 2014 (Mobile terminals)
 AFR Region, Tunis 23-27 June 2014 (Mobile terminals)
Americas Region, Campinas July 2014 (Mobile 22terminals)

