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| **Logo, company name  Description automatically generated** | A close up of a sign  Description automatically generated**World Telecommunication Development Conference (WTDC-22)**  **Kigali, Rwanda, 6-16 June 2022** | |
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| PLENARY MEETING | | **Addendum 24 to Document WTDC-22/24-E** |
|  | | **2 May 2022** |
|  | | **Original: English** |
| Member States of the Inter-American Telecommunication Commission (CITEL) | | |
| Proposal to modify WTDC Resolution 47  on 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 | | |
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| **Priority area:** - Resolutions and Recommendations  **Summary:**  CITEL proposes updating WTDC Resolution 47 by mentioning texts from higher ranking documents, such as the Resolutions of the Plenipotentiary Conference, Convention and Constitution, among others; and encourages public-private partnerships and cooperation between national, regional and international certification bodies.  **Expected results:**  WTDC-22 is invited to examine and approve the proposal in this document.  **References:**  WTDC Resolution 47 | | |

**MOD** IAP/24A24/1

RESOLUTION 47 (Rev. Kigali, 2022)

Enhancement of knowledge and effective application of   
ITU Recommendations in developing countries[[1]](#footnote-1)1, including conformance and interoperability testing of systems manufactured on the basis of ITU Recommendations

The World Telecommunication Development Conference (Kigali, 2022),

recalling

*a)* Resolution 177 (Rev. Dubai, 2018) of the Plenipotentiary Conference, on conformance and interoperability (C&I);

*b)* Resolution 139 (Rev. Busan, 2014) of the Plenipotentiary Conference, on use of telecommunications/information and communication technologies (ICTs) to bridge the digital divide and build an inclusive information society;

*c)* Resolution 123 (Rev. Busan, 2014) of the Plenipotentiary Conference, on bridging the standardization gap between developing and developed countries;

*d)* Resolution 15 (Rev. Buenos Aires, 2017), of this conference, on applied research and transfer of technology;

*e)* Resolution 37 (Rev. Buenos Aires, 2017) of this conference, on bridging the digital divide;

*f)* Resolution 40 (Rev. Buenos Aires, 2017) of this conference, on the Group on capacity-building initiatives (GCBI),

considering

a) the action plan of the ITU C&I programme as updated at the 2013 session of the ITU Council, the pillars of which are 1) Conformity assessment, 2) Interoperability events, 3) Capacity building, and 4) Establishment of test centres and C&I programme in developing countries;

*b)* that ITU should take a leading role in the implementation of the ITU C&I programme, with the ITU Telecommunication Standardization Sector (ITU-T) taking lead responsibility for Pillars 1 and 2, and the ITU Telecommunication Development Sector (ITU-D) for Pillars 3 and 4;

*c)* that C&I of telecommunication/ICT equipment and systems, thanks to the implementation of relevant programmes, policies and decisions, can enhance market opportunities and reliability, and promote world integration and trade;

recognizing

*a)* that the provisions of ITU Recommendations may guide ITU Member States in the development of national standards;

*b)* the importance of bridging the standardization gap as it applies to conformance and interoperability;

*c)* that Resolution 44 (Rev. Hammamet, 2016) of WTSA instructs the Director of the Telecommunication Standardization Bureau (TSB), in collaboration with the Directors of the Radiocommunication Bureau (BR) and BDT, to provide support and assistance to developing countries, if requested, in drafting/developing a set of guidelines on the application of ITU‑T Recommendations at the national level in order to enhance their participation in ITU-T study groups, with the assistance of the ITU regional offices, for bridging the standardization gap, and to assist developing countries with their studies, particularly in respect of their priority Questions and towards developing and implementing ITU-T Recommendations;

*d)* that conformance systems and testing, encompassing items such as security, interoperability, spectrum occupancy, quality and national technical regulation of ICT equipment, constitute important tests from the standpoint of ICT infrastructure and the consumer;

*e)* the importance of assisting developing countries in identifying human and institutional capacity-building and training opportunities on C&I testing and in encouraging collaboration with governmental and non-governmental, national and regional organizations and international accreditation and certification bodies;

*f)* that interoperability of international telecommunication networks was the main reason for creating the International Telegraph Union in 1865, and that this remains one of the main goals in the ITU strategic plan;

*g)* that emerging technologies could have needs for C&I testing;

*h)* that conformity assessment is the accepted way of demonstrating that a product adheres to specific requirements, and conformity assessment procedures continue to be important in the context of World Trade Organization members' international standardization commitments under the Agreement on Technical Barriers to Trade,

further recognizing

that the ITU C&I programme was initiated at the request of the ITU membership, particularly the developing countries, in order to enhance the conformity and interoperability of ICT networks and products implementing ITU Recommendations or part thereof, solicit feedback to improve the quality of ITU Recommendations, and reduce the digital divide and the standardization gap by assisting developing countries with human-resources and infrastructure capacity building,

taking into account

that technical training and capacity building for testing and certification are essential for countries to increase global connectivity and promote the deployment of advanced telecommunication networks,

noting

*a)* that some countries, especially developing countries, have not as yet acquired the capacity to test equipment and provide security with respect to the consumers in their countries;

*b)* that the activities of ITU-D Study Group 2 under Question 4/2 and of ITU‑T Study Group 11, especially in the field of C&I testing, have created growing interest in developing countries in building capacities related to C&I;

*c)* that C&I testing can facilitate the interoperability of certain emerging technologies such as IoT, IMT-2020;

*d)* that having infrastructure applications in developing countries which are compatible with the Recommendations and standards of ITU-T and/or other international and internationally recognized organizations is desirable, as against those based on proprietary technologies and equipment, so as to maintain a competitive environment, reduce costs, increase the chances of interoperability and ensure satisfactory quality of service and quality of experience;

*e)* the need for C&I testing in order to reduce the probability of errors being introduced during the network integration period, which can impact on commercial deployment schedules;

*f)* that, when interoperability experiments or testing have not been performed, users may have suffered from the lack of interconnection performance between equipment from different manufacturers;

*g)* that ITU is implementing human-resources capacity building in the regions on conformity, interoperability and testing, which will also be organized in cooperation with other relevant regional and international organizations, to clarify fundamental aspects and accreditation;

*h)* that, along with ITU-T Recommendations, there are a number of specifications for C&I testing developed by other standards-development organizations (SDOs), forums and consortia;

*i)* that understanding ITU Recommendations and related international standards in order to apply new technology to the network appropriately and effectively is essential for the implementation of Resolution 76 (Rev. Geneva, 2022),

resolves

1 to continue engaging in activities to enhance knowledge and effective application of ICT standards, including ITU-R and ITU-T Recommendations, in developing countries;

2 to enhance efforts to introduce best practice and share experiences on the application of ICT standards, including ITU-R and ITU-T Recommendations, in, for example, but not limited to, fibre-optic transmission technology, broadband network technology, International Mobile Telecommunications, next-generation networks and emerging technologies, including IoT, 5G, and building confidence and security in the use of ICTs, by organizing training courses and workshops especially for developing countries, involving academia in the process,

instructs the Director of the Telecommunication Development Bureau, in close collaboration with the Directors of the Telecommunication Standardization Bureau and the Radiocommunication Bureau

1 to continue to encourage the participation of developing countries in training courses and workshops organized by ITU‑D, so as to introduce best practices and to share experience in the application of ICT standards, including ITU‑R and ITU‑T Recommendations;

3 to provide assistance in developing methodological guidance (manuals) on implementing ITU Recommendations;

4 to assist developing countries in building their capacity, in collaboration with the other Bureaux, so as to be able to perform conformance testing and interoperability testing of equipment and systems, relevant to their needs, in accordance with the relevant Recommendations, including the development or recognition of, as appropriate, conformity assessment bodies;

5 to assist the Director of TSB, in collaboration with the Director of BR and, as appropriate, with equipment and systems manufacturers and internationally and regionally recognized SDOs, in holding conformance assessment and interoperability testing events, preferably in the developing countries, to encourage developing countries to attend these events

6 to collaborate with the Director of TSB in order to build the capacity of the developing countries to effectively participate and be involved in these events, and to provide the views of developing countries on this issue on the basis of a questionnaire addressed by the relevant BDT programme to the ITU members;

7 to promote, with the collaboration of regional C&I bodies (for example, regional standardization bodies, accreditation bodies, certification bodies and testing laboratories, among others), the establishment of technical collaboration with respect to conformance assessment;

8 to assist developing countries in establishing regional or subregional C&I centres and encourage public and private collaboration with governmental and non-governmental, national and regional organizations and international accreditation and certification bodies;

9 to identify regional and subregional ICT testing centres in developing countries as ITU centres of excellence for testing, training and capacity building of ITU members, as part of the strategies to fulfil the objectives of this resolution;

10 to use the ITU seed fund meant for projects and encourage donor agencies to fund annual capacity-building and training programmes in testing centres adopted as ITU centres of excellence;

11 to coordinate and foster capacity building, by facilitating participation from developing countries in the work of international or regional test laboratories of organizations or entities specialized in conformance testing and interoperability testing, in order to gain on-the‑job experience;

12 to collaborate with the Director of TSB in order to implement the recommended actions under Resolution 76 (Rev. Geneva, 2022) in the C&I programme action plan as agreed by the Council at its 2012 session and revised by the Council at its 2013 session;

13 to assign to the BDT programme concerned the responsibility for following up implementation of this resolution;

14 to submit a periodic report to the Telecommunication Development Advisory Group on the implementation of this resolution, as well as a report to the next world telecommunication development conference on implementation of this resolution, which shall also contain lessons learned with a view to updating the resolution for the cycle after 2020;

15 to continue fostering the participation of developing countries in training courses and workshops organized by ITU-D to introduce suitable practices for implementing ICT standards, including ITU-R and ITU-T Recommendations;

16 to support the review, amendment, updating or drafting of various regulatory instruments such as technical standards, rules, conformance assessment procedures, guidelines for the type-approval and certification of products, equipment, devices or apparatus that can be connected to a telecommunication network;

17 to foster harmonization of C&I procedures, strengthening international, regional and national capacity in this matter;

18 to facilitate, through the ITU regional offices, meetings of experts at the regional and subregional levels, in order to promote awareness in developing countries on the question of the establishment of an appropriate C&I programme in such countries;

19 to assist Member States in enhancing their capabilities for conformance assessment and testing and to provide experts for developing countries;

20 to submit the progress reports of the activities to the Council for its consideration and required actions,

invites the Council

to consider the Director’s report,

invites Member States and Sector Members

1 to contribute to the implementation of this resolution by means of the following, among others:

i) the specification of requirements to conduct C&I testing, actively submitting contributions to the relevant study groups;

ii) consideration of the possibility of collaborating in future C&I activities;

2 to encourage national and regional bodies in charge of ICT equipment and system conformance to contribute to the implementation of this resolution;

3 to exchange C&I expertise in order to enhance knowledge and share experiences;

4 to create an enabling environment for ICT equipment manufacturers to consider the local design and manufacture of equipment in developing countries;

5 to develop and improve the mutual recognition of C&I test and results;

6 to evaluate the risks and costs of lack of conformity with acceptable international standards, especially in developing countries, and to share the necessary information and recommendations on best practices, in order to prevent losses,

invites eligible organizations under Recommendation ITU‑T A.5

in collaboration with the Director of BDT and the Director of TSB, in accordance with Resolution 177 (Rev. Dubai, 2018), on C&I, to work on building the capacity of developing countries in C&I testing, including training.

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1. 1 These include the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition. [↑](#footnote-ref-1)