WTSA-12 Action Plan, V2.0

(9 June 2014)

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| [1](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2001.pdf) | [Resolution 1](#Resolution_01) – Rules of procedure of the ITU Telecommunication Standardization Sector  |
| [2](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2002.pdf) | [Resolution 2](#Resolution_02) – ITU Telecommunication Standardization Sector study group responsibility and mandates |
| [7](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2007.pdf) | [Resolution 7](#Resolution_07) – Collaboration with the International Organization for Standardization and the International Electrotechnical Commission  |
| [11](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2011.pdf) | [Resolution 11](#Resolution_11) – Collaboration with the Postal Operations Council of the Universal Postal Union in the study of services concerning both the postal and the telecommunication sectors |
| [18](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2018.pdf) | [Resolution 18](#Resolution_18) – Principles and procedures for the allocation of work to, and coordination between, ITU Radiocommunication and ITU Telecommunication Standardization Sectors |
| [20](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2020.pdf) | [Resolution 20](#Resolution_20) – Procedures for allocation and management of international telecommunication numbering, naming, addressing and identification resources |
| [22](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2022.pdf) | [Resolution 22](#Resolution_22) – Authorization for Telecommunication Standardization Advisory Group to act between world telecommunication standardization assemblies |
| [29](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2029.pdf) | [Resolution 29](#Resolution_29) – Alternative calling procedures on international telecommunication networks |
| [31](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2031.pdf) | [Resolution 31](#Resolution_31) – Admission of entities or organizations to participate as Associates in the work of the ITU Telecommunication Standardization Sector |
| [32](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2032.pdf) | [Resolution 32](#Resolution_32) – Strengthening electronic working methods for the work of the ITU Telecommunication Standardization Sector |
| [33](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2033.pdf) | [Resolution 33](#Resolution_33) – Guidelines for strategic activities of the ITU Telecommunication Standardization Sector  |
| [34](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2034.pdf) | [Resolution 34](#Resolution_34) – Voluntary contributions |
| [35](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2035.pdf) | [Resolution 35](#Resolution_35) – Appointment and maximum term of office for chairmen and vice-chairmen of study groups of the Telecommunication Standardization Sector and of Telecommunication Standardization Advisory Group |
| [38](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2038.pdf) | [Resolution 38](#Resolution_38) – Coordination among the three ITU Sectors for activities relating to International Mobile Telecommunications |
| [40](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2040.pdf) | [Resolution 40](#Resolution_40) – Regulatory aspects of the work of the ITU Telecommunication Standardization Sector  |
| [43](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2043.pdf) | [Resolution 43](#Resolution_43) – Regional preparations for world telecommunication standardization assemblies |
| [44](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2044.pdf) | [Resolution 44](#Resolution_44) – Bridging the standardization gap between developing and developed countries |
| [45](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2045.pdf) | [Resolution 45](#Resolution_45) – Effective coordination of standardization work across study groups in the ITU Telecommunication Standardization Sector and the role of Telecommunication Standardization Advisory Group |
| [47](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2047.pdf) | [Resolution 47](#Resolution_47) – Country code top-level domain names |
| [48](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2048.pdf) | [Resolution 48](#Resolution_48) – Internationalized (multilingual) domain names |
| [49](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2049.pdf) | [Resolution 49](#Resolution_49) – ENUM |
| [50](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2050.pdf) | [Resolution 50](#Resolution_50) – Cybersecurity |
| [52](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2052.pdf) | [Resolution 52](#Resolution_52) – Countering and combating spam |
| [54](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2054.pdf) | [Resolution 54](#Resolution_54) – Creation of, and assistance to, regional groups |
| [55](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2055.pdf) | [Resolution 55](#Resolution_55) – Mainstreaming a gender perspective in ITU Telecommunication Standardization Sector activities |
| [57](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2057.pdf) | [Resolution 57](#Resolution_57) – Strengthening coordination and cooperation among the three ITU Sectors on matters of mutual interest |
| [58](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2058.pdf) | [Resolution 58](#Resolution_58) – Encourage the creation of national Computer Incident Response Teams, particularly for developing countries |
| [59](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2059.pdf) | [Resolution 59](#Resolution_59) – Enhancing participation of telecommunication operators from developing countries |
| [60](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2060.pdf) | [Resolution 60](#Resolution_60) – Responding to the challenges of the evolution of the identification/numbering system and its convergence with IP-based systems / networks |
| [61](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2061.pdf) | [Resolution 61](#Resolution_61) – Countering and combating misappropriation and misuse of international telecommunication numbering resources |
| [62](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2062.pdf) | [Resolution 62](#Resolution_62) – Dispute settlement |
| [64](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2064.pdf) | [Resolution 64](#_Resolution_64_-) – IP address allocation and facilitating the transition to and deployment of IPv6 |
| [65](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2065.pdf) | [Resolution 65](#Resolution_65) – Calling party number delivery, calling line identification and origin identification |
| [66](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2066.pdf) | [Resolution 66](#Resolution_66) – Technology Watch in the Telecommunication Standardization Bureau |
| [67](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2067.pdf) | [Resolution 67](#Resolution_67) – Use in the ITU Telecommunication Standardization Sector of the languages of the Union on an equal footing |
| [68](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2068.pdf) | [Resolution 68](#Resolution_68) – Implementation of Resolution 122 (Rev. Antalya, 2006) of the Plenipotentiary Conference on the evolving role of the World Telecommunication Standardization Assembly |
| [69](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2069.pdf) | [Resolution 69](#_Resolution_69_-) – Non-discriminatory access and use of Internet resources |
| [70](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2070.pdf) | [Resolution 70](#Resolution_70) – Telecommunication/information and communication technology accessibility for persons with disabilities |
| [71](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2071.pdf) | [Resolution 71](#Resolution_71) – Admission of academia to participate in the work of the ITU Telecommunication Standardization Sector |
| [72](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2072.pdf) | [Resolution 72](#Resolution_72) – Measurement concerns related to human exposure to electromagnetic fields |
| [73](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2073.pdf) | [Resolution 73](#Resolution_73) – Information and communications technologies, environment and climate change |
| [74](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2074.pdf) | [Resolution 74](#Resolution_74) – Admission of Sector Members from developing countries in the work of the ITU Telecommunication Standardization Sector |
| [75](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2075.pdf) | [Resolution 75](#Resolution_75) – The ITU Telecommunication Standardization Sector’s contribution in implementing the outcomes of the World Summit on the Information Society |
| [76](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2076.pdf) | [Resolution 76](#Resolution_76) – Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU mark programme |
| [77](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2077.pdf) | [Resolution 77](#Resolution_76) – Standardization work in the ITU Telecommunication Standardization Sector for software-defined networking |
| [78](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2078.pdf) | [Resolution 78](#Resolution_76) – Information and communication technology applications and standards for improved access to e-health services |
| [79](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2079.pdf) | [Resolution 79](#Resolution_76) – The role of telecommunications/ information and communication technologies in handling and controlling e-waste from telecommunication and information technology equipment and methods of treating it |
| [80](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2080.pdf) | [Resolution 80](#Resolution_76) – Acknowledging the active involvement of the membership in the development of ITU Telecommunication Standardization Sector deliverables |
| [81](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2081.pdf) | [Resolution 81](#Resolution_76) – Strengthening collaboration |
| [82](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Resolution%2082.pdf) | [Resolution 82](#Resolution_76) – Strategic and structural review of the ITU Telecommunication Standardization Sector |
| [Opinion 1](http://www.itu.int/en/ITU-T/wtsa12/Documents/resolutions/Opinion%201.pdf) | [Opinion 1](#_Opinion_1_-) – Practical application of network externality premium |

\* Numbers in the Resolution Number column are hyperlinked to the full texts of the published Resolutions

\*\* The Resolution titles are hyperlinked to the status reports in this document below

The Action Plan for WTSA-12 Resolutions and Opinion includes references and linkages ITU-T documents and activities, and also to documents and activities of Council, Plenipotentiary Conference and the other Sectors. These references and links are updated with each update to the Action Plan.

# Section II - Progress reports on implementation of the WTSA-12 Resolutions and Opinion

This section of the report shows the name of each WTSA-12 Resolution/Opinion, followed by the text of the “operative” portion of the Resolution, i.e., the *resolves*, *calls upon*, *instructs*, etc., a listing of the Action Items and due dates, with a column that indicates if a particular Action Item is ongoing by nature that has been met periodic goals, and another column that indicates if a particular Action Item has been completed. A box coloured with red indicates an item requiring attention or one that is in jeopardy. Further on in each section, detailed information on each Action Item will be provided. The Action Item number, in the first column of the chart of Action Items, is hyperlinked to the status report for that particular Action Item.

# Resolution 1 - Rules of procedure of the ITU Telecommunication Standardization Sector

***Resolution 1***

*resolves*

that the provisions referred to in *considering* *e)*, *f),* *g)* and *h)* above shall be further elaborated by the provisions of this resolution and in the resolutions to which they refer, bearing in mind that, in the case of inconsistency, the Constitution, the Convention, the International Telecommunication Regulations and the General Rules of conferences, assemblies and meetings of the Union (in that order) shall prevail over this resolution.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [01-01](#Item01_01) | TSB to prepare agreement with host country for WTSA-16 | One year before WTSA-16 |  |  |
| [01-02](#Item01_02) | Director to prepare proposal for organization and structure of WTSA-16 | 3 months before WTSA-16 |  |  |
| [01-03](#Item01_03) | Director to prepare report to WTSA-16 (§1.9.1) | Last TSAG before WTSA-16 |  |  |

Action Item 01-01: TSB

Action Item 01-02: TSB

Action Item 01-03: TSB

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# Resolution 2 - ITU Telecommunication Standardization Sector Study Group responsibility and mandates

***Resolution 2***

resolves

1 that the mandate of each study group, which it shall use as the basis for organizing its study programme, shall consist of:

– a general area of responsibility, as set out in Annex A, within which the study group may amend existing Recommendations, in collaboration with other groups, as appropriate;

– a set of Questions related to particular areas of study, which are compatible with the general area of responsibility and which should be results-oriented (refer to Section 7 of Resolution 1 (Rev. Dubai, 2012) of this assembly);

2 to encourage the study groups to consider collocation (e.g. of study group plenaries, working parties or rapporteur meetings) as a means to improve cooperation in some areas of work; the study groups involved will need to identify the areas in which they need to cooperate, based on their mandates, and keep TSAG and TSB informed,

instructs the Telecommunication Standardization Bureau

to support and facilitate the operational aspects of such collocation.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [02-01](#Item02_01) | TSB Counsellors to insert pointer on Resolution 2 webpage to location of updated SG structure, mandate or Annex C information within one month of change.  | Ongoing | √ | √ |
| 02-02 | SG2 and SG3 to hold meetings back-to-back going forward | Ongoing | √ |  |

Action Item 02-01: TSB

An updated Annex C is available on the ITU-T website here: <http://itu.int/en/ITU-T/about/Pages/res2-annexc-sp15.aspx>. Updates are recorded on this page shortly after approval.

Changes in mandate and lead SG roles are recorded directly under the "**Mandate and lead roles**" sub-page under each individual study group, http://itu.int/en/ITU-T/studygroups/2013-2016/*xx*/Pages/mandate.aspx, where *xx*=02, 03, 05, 09, 11, 12, 13, 15, 16, 17.

Action Item 02-02: TSB

Conference Call held between SG2 and SG3 Chairmen and TSB Secretariat. SG2 and SG3 met back-to-back in May-June 2014.

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# Resolution 7 - Collaboration with the International Organization for Standardization and the International Electrotechnical Commission

***Resolution 7***

resolves

1 to continue inviting ISO and IEC to examine the ITU‑T study programme in the early stages of its studies and vice versa, and to further examine such programmes to take into account ongoing changes, in order to identify subjects where coordination seems desirable, and to so advise the Director of the Telecommunication Standardization Bureau (TSB);

2 to request the Director of TSB, after consultation with the study group chairmen concerned, to reply, and to furnish any additional information requested by ISO and IEC, as it becomes available;

3 to request the Director of TSB to examine and update the programme of cooperation and priority of the study items among ITU‑T, ISO and IEC and highlight this information on the ITU‑T website on a regular basis;

4 to request the Director of TSB, the study groups and the Telecommunication Standardization Advisory Group to consider and propose further improvements to the procedures for cooperation between ITU‑T and ISO and IEC, including setting the priorities for such cooperation, such as conformance assessment schemes and laboratory standards;

5 that the necessary contacts with ISO and/or IEC should be at the appropriate levels and coordination methods should be mutually agreed and regular coordination events arranged:

• for work where text should be drawn up mutually and kept aligned, procedures in accordance with Recommendation ITU‑T A.23 and the Guidelines for Cooperation therein apply;

• for other activities where coordination between ITU‑T and ISO and IEC is required (for example in relation to any mutual agreements, such as the Memorandum of Understanding on standardization in the field of electronic business), clear means of coordination shall be established and regular coordination contacts made;

6 to request the chairmen of study groups to take into account the related work programmes and the progress of projects in ISO, IEC and ISO/IEC JTC 1; further, to cooperate with these organizations as widely as possible and by appropriate means, in order to:

• ensure that the specifications which have been jointly drawn up remain aligned;

• collaborate in drawing up other specifications in fields of joint interest;

7 that, for reasons of economy, any necessary collaborative meetings take place as far as possible in association with other meetings;

8 that the report concerning such coordination indicate the status of alignment and compatibility of draft texts on points of common concern, in particular identifying any subject which could be dealt with in a single organization, and cases where cross-referencing would be helpful to users of published International Standards and Recommendations;

9 to invite administrations to contribute significantly to the coordination between ITU‑T on the one hand and ISO and IEC on the other by ensuring adequate coordination of national activities associated with the three organizations.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [07-01](#Item07_01) | Director to consult with ISO and IEC on work programmes and follow through with study group chairmen according to Resolves of Resolution 7. | Ongoing | √ |  |
| [07-02](#Item07_02) | TSAG and SG17 to continue work on the Amendment to Rec ITU-T A.23 regarding registration authority | Ongoing | √ |  |
| [07-03](#Item07_03) | TSB, in consultation with the study groups, to update programme of cooperation and priority among ITU-T, ISO and IEC, and update website  | Ongoing | √ |  |
| [07-04](#Item07_04) | TSB, in consultation with the study groups, to cooperate with ISO/IEC on C&I issues | Ongoing | √ |  |

Action Item 07-01: TSB and SGs

The World Standards Cooperation (WSC) meets annually in the February timeframe. In addition, the TSB Director, ISO Secretary General and IEC General Secretary meet periodically (two-three times a year) to discuss cooperation topics.

WSC meetings:

* 14 February 2013, hosted by ISO Secretariat.
* 20 February 2014, hosted by ITU Secretariat.
* 12 February 2015, to be hosted by IEC Secretariat.
* 25 February 2016, to be hosted by ISO Secretariat.

WSC members agree at their annual meeting on a three-year rolling plan. Joint WSC activities include:

* World Standards Day
	+ For WSD 2014, the traditional on-line poster competition will be developed around the theme “International Standards level the playing field”.
	+ For WSD 2015, the theme will be “Standards – building on a common language”.
* Academia
	+ WSC organized the Academic Day, part of the WSC cooperation between SDOs and academic institutions, in Sophia Antipolis, France, 14 June 2013. The theme was: Education in standardization for future managers – Needs and prospects. At the same venue and during the two days before the WSC event, the 8th conference of the International Cooperation on Education about Standardization (ICES) will take place.
	+ The WSC Academic Day 2014 and the ICES conference will be held in the second half of 2014 in Ottawa in conjunction with the annual conference of SES.
	+ ISO, IEC and ITU organized the WSC Roundtable in Washington DC, on 26-27 June 2013, entitled, “The role of standardization in strategy, innovation and entrepreneurship”, with the aim to build awareness on the role of standards and to foster cooperation between world leading universities and standards organizations. This WSC roundtable has been designed to reach the world leading business / management schools - with focus, in 2013, on those located in the East coast of the United States.
	+ IEC is organizing the second Academia Workshop to be held on the West Coast of the United States in the first half of October 2014.
* Accessibility
	+ Proposals to follow up on the six “high priority” recommendations at the 2010 WSC workshop on accessibility have been developed jointly between staff of the offices of IEC, ISO and ITU.
	+ WSC asked the CEOs of the WSC member organizations to finalize the WSC Policy on standardization and accessibility and to submit it to their relevant governing bodies for approval.
	+ ISO, IEC and ITU plan to issue a common document, namely ISO/IEC Guide 71 / ITU-T Supplement <x>, Guide for addressing accessibility in standards, in October 2014.
* Coordination of relations with WTO
* Conformity assessment
	+ Under the lead of IEC, WSC will organize a WSC Conformity Assessment workshop in Q1/Q2/2015 to enhance awareness of global conformity assessment
* Promotion
	+ WSC members agreed to a proposal to organize a Joint WSC Symposium at Smart City Expo World Congress 2015 in Barcelona, under IEC’s lead.
* Intellectual Property Rights (IPR)

ITU, ISO and IEC jointly organized The Fully Networked Car Workshops during the Geneva International Motor Show up to 2013. The 2013 edition took place on 6 March and was led by ISO (<http://www.worldstandardscooperation.org/fnc2013.html>). As of 2014, ISO and IEC are no longer co-organizers of the Fully Networked Car workshop. In 2014, ITU organized the “Future Networked Car” Symposium” during the Geneva International Motor Show.

TSB (Deputy Director) participated at the IEC SMB (Standardization Management Board) in February 2014 and at the ISO TMB (Technical Management Board) in June 2014.Action Item 07-02: TSAG and SG17

SG17 continues to work jointly with several ISO TCs, IEC TCs and ISO/IEC JTC 1/SCs on work items of common interest.

Revised Annex A to Recommendation A.23 is implemented by SG17. SG17 expects its work on registration authorities will be useful to TSAG in updating Annex A.

Action Item 07-03: TSB

The much-anticipated new codec standard – the successor to award-winning standard ITU-T H.264 – was consented at a meeting of Study Group 16 formally as Recommendation ITU-T H.265 or ISO/IEC 23008-2. It is the product of collaboration between the ITU Video Coding Experts Group (VCEG) and the ISO/IEC Moving Picture Experts Group (MPEG).

SG17 continues to work jointly with several ISO TCs, IEC TCs and ISO/IEC JTC 1/SCs on work items of common interest.

The mapping of SG17 Questions with TC or SC in IEC, ISO or ISO/IEC JTC 1 is updated at each SG17 meeting. See <http://itu.int/ITU-T/studygroups/com17/refdocs/relationships.html>.

Update to the ICT Security Standards Roadmap is on-going to include information on new standards from ITU-T, ISO and IEC. Similar coordination is done on e-business standardization.

In the framework of accessibility, the WSC-organizations are strengthening their relationship with the United Nations Convention of the Rights of Persons with Disabilities (UNCRPD) and establishing links and liaisons with disability organizations. ITU facilitates this approach as a United Nations agency and permanent member of the Inter-Agency Support Group (IASG) of the United Nations Convention on the Rights of Persons with Disabilities. A presentation on behalf of work of the World Standards Cooperation (WSC) in the field of accessibility was made by TSB during the inter Agency Support group for the UN CRPD meeting, which took place 25 - 26 November 2013 at the UNESCO headquarters.

Back in November 2010, WSC organized an international workshop on “Accessibility and the contribution of International Standards”. The workshop agreed on WSC Recommendations, with different level of priority. Among those with high priority, WSC recommendation no. 4 stated that *“WSC-organizations should strengthen their relationship with the United Nations Convention of the Rights of Persons with Disabilities (CRPD) and establish links and liaisons with disability organizations”*.

TSB made a presentation on the work of WSC in the field of accessibility, as part of the follow-up. The presentation was very well received by the IASG participants. In particular the Secretary of the Committee on the Rights of Persons with Disabilities, (Office of the United Nations High Commissioner for Human Rights),  expressed a vivid interest to have additional briefings on the work of WSC and ITU on standardization in the area of accessibility, briefings that could be addressed to the members of the Committee. The Committee on the Rights of Persons with Disabilities (CRPD) is the body of independent experts which monitors implementation of the Convention by the States Parties.

In April 2014, ITU facilitated and presented the role of accessibility standards during a briefing “Advancing on the implementation of Article 9 of the CRPD “Accessibility”. This briefing was organized by ITU and Office of the United Nations High Commissioner for Human Rights - Secretariat of the Committee on the Rights of Persons with Disabilities, during the 11th session of the Committee on the Rights of Persons with Disabilities (CRPD). ISO and IEC were invited to the event and contributed to the meeting. TSB led the initiative and a fruitful discussion took place with the experts of the UN CRPD Committee. This activity contributed to the inclusion of several references to ITU and the role of international standards into the draft General Comment on Article 9 of the UN CRPD.

The draft “WSC Policy on Standardization and Accessibility” is work in progress. Furthermore, IEC, ISO and ITU intend to publish the *Guide for addressing accessibility in standards* jointly as ISO/IEC Guide 71 / ITU-T Supplement <x> .

Action Item 07-04: TSB

WSC, under the lead of IEC, plan to organize a conformity assessment workshop in early 2015.

A presentation on the IECEE Conformity Assessment scheme was given on 26 February 2013 to both ITU-T SG11 and ITU-T SG 13 and in a session at TSAG July 2013. Discussions between TSB Director and IEC General Secretary reveal possible mutually beneficial solutions for the implementation of pillar 1 of the ITU C&I programme through the IEC schemes. ITU-T SG 11 at its meeting encouraged the TSB Director to explore this cooperation with IECEE and to report to TSAG.

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# Resolution 11 - Collaboration with the Postal Operations Council of the Universal Postal Union in the study of services concerning both the postal and the telecommunication sectors

**Resolution 11**

resolves

that the relevant ITU‑T study groups should continue to collaborate with the Postal Operations Council (POC) committees as necessary, on a reciprocal basis and with a minimum of formality, in particular by investigating issues of common interest such as quality of service, electronic services and security of mobile payment,

instructs the Director of the Telecommunication Standardization Bureau

to encourage and assist this collaboration between the two organs.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [11-01](#Item11_01) | ITU-T SGs to collaborate with the POC on issues of common interest | Ongoing | √ |  |

Action Item 11-01: SGs

TSB gave a talk at the UPU’s “Global Forum on Financial Inclusion”, 24-25 October 2013. This participation catalysed a mini workshop with UPU during the meeting of ITU-T SG 17 in January 2014. The workshop explored opportunities for cooperation in areas of joint interest. The mini workshop helped to achieve better mutual understanding of the interests and concluded with a couple of touch points for future collaboration. In particular, SG17 has some specific collaboration with UPU on identity management.

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# Resolution 18 - Principles and procedures for the allocation of work to, and coordination between, ITU Radiocommunication and ITU Telecommunication Standardization Sectors

**Resolution 18**

resolves

1 that TSAG and RAG, meeting jointly as necessary, shall continue the review of new and existing work and its distribution between ITU‑T and ITU‑R, for approval in accordance with the procedures laid down for the approval of new and/or revised Questions;

2 that, if considerable responsibilities in both Sectors in a particular subject are identified:

i) the procedure as given in Annex A to this resolution should be applied; or

ii*)* a joint group should be established; or

iii) the matter should be studied by relevant study groups of both Sectors, with appropriate coordination (see Annexes B and C to this resolution).

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [18-01](#Item18_01) | TSAG to continue to review work and its distribution and possible coordination between ITU-T and ITU-R | Ongoing | √ |  |

**Action Item 18-01: TSAG**

Collaboration with ITU-R is a standing agenda point of TSAG, and review is performed on a regular basis based on information received.

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# Resolution 20 - Procedures for allocation and management of international telecommunication numbering, naming, addressing and identification resources

**Resolution 20**

resolves to instruct

1 the Director of TSB, before assigning, reassigning and/or reclaiming international NNAI resources, to consult:

i) the chairman of Study Group 2, in liaison with the chairmen of the other relevant study groups, or if needed the chairman's delegated representative; and

ii) the relevant administration(s); and/or

iii) the authorized applicant/assignee when direct communication with TSB is required in order to perform its responsibilities.

In the Director's deliberations and consultations, the Director will consider the general principles for the allocation of NNAI resources, and the provisions of the relevant Recommendations in the ITU‑T E-, ITU-T F-, ITU-T Q- and ITU-T X-series, and those to be further adopted;

2 Study Group 2, in liaison with the chairmen of the other relevant study groups, to provide to the Director of TSB:

i) advice on technical, functional and operational aspects in the assignment, reassignment and/or reclamation of international NNAI resources in accordance with the relevant Recommendations, taking into account the results of any ongoing studies;

ii) information and guidance in cases of reported complaints about misuses of international telecommunication NNAI resources;

3 the Director of TSB, in close collaboration with Study Group 2, and any other relevant study groups, to follow up on the misuse of any NNAI resources and inform the ITU Council accordingly;

4 the Director of TSB to take the appropriate measures and actions where Study Group 2, in liaison with the other relevant study groups, has provided information, advice and guidance in accordance with *resolves to instruct* 2 and 3 above;

5 Study Group 2 to study, urgently, necessary action to ensure that the sovereignty of ITU Member States with regard to country code NNAI plans is fully maintained, including ENUM as enshrined in Recommendation ITU-T E.164 and other relevant Recommendations and procedures; this shall cover ways and means to address and counter any misuse of any NNAI resources, and of call progress tones and signals, through proper development of a proposed resolution and/or the development and adoption of a Recommendation towards this aim.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [20-01](#Item20_01) | Director to use procedures in relevant Recommendations upon receipt of new numbering, addressing and identification resource requests | Ongoing | √ |  |
| [20-02](#Item20_02) | SG2 to provide Director with advice and guidance related to Resolution 20 | Ongoing |  |  |
| [20-03](#Item20_03) | Director, in close collaboration with SG2 and other relevant study groups, to follow-up on misuse of resources and inform Council accordingly | Ongoing | √ |  |
| [20-04](#Item20_04) | SG2 to study necessary action to ensure sovereignty of ITU Member States with regard to country code NNAI plans is maintained, including ENUM. | Ongoing | √ |  |

Action Item 20-01: TSB

In order to perform the administration and registration function for the international numbering resources under the purview of ITU-T more efficiently and precisely, database systems for many of the International Numbering Resources are undergoing a major revamp, which also presents a more intuitive user interface. So far in 2013 the overhaul of the database for national-only numbers linked with emergency services and other services of social value (ITU-T E.129) has been completed - <http://www.itu.int/net/itu-t/inrdb/e129_important_numbers.aspx>. This database is derived from elements reported by the Member States according to the format specified in Recommendation ITU-T E.129 (01/2013).

Databases displaying information related to Terrestrial trunk radio mobile country codes (TMCC) (ITU-T E.218); Issuer identifier numbers (IIN) for the international telecommunication charge card (ITU-T E.118); E.164 Geographic Country Codes; ITU-T E.164 International Shared Country Codes for Global Mobile Satellite System (GMSSS), Groups of countries, International Networks, Trial of a proposed new international telecommunication public correspondence service and Universal Personal Telecommunication Service (UPT) were launched in September-October 2013.

Action Item 20-02: SG2

In the ITU Activity report to Council 2013 ([C13/35](http://www.itu.int/md/S13-CL-C-0035/en)), the TSB Director reports that ITU-T Study Group 2 established the membership of the advisory Number Coordination Team (NCT) in accordance with WTSA Resolution 20 (as stated in appendix I of E.164.1). It was agreed that the NCT will take on the responsibilities of the Assessment Committee for misuse of numbers, which advises the TSB Director on actions relating to misuses of a numbering resource according to ITU-T E.156.

At the ITU-T SG2 meeting (22-31 January 2013), the potential new applications and risks of exhaustion of E.212 resource were discussed. The evaluation of the impact of introducing 3 digit MNCs for E.212 resource is ongoing. Response from GSMA regarding 3-digit MNCs was received and noted by SG2 meeting of 17-26 September 2013. The possibility of assigning a global MCC either for M2M or only for automated in-vehicle emergency call systems or making MNC assignment more flexible for geographic MCCs is under discussion.

Action Item 20-03: TSB and SG2

Over 200 reports of misuse of numbering resources have been received by the end of 2013 in accordance with the established procedures. The Director of TSB has notified the concerned administrations. Around 30% of the reports got replies. Responses have been published as soon as they have been received. Most of them were sent by GSMA between March 2012 and February 2013 but GSMA has suspended submission of numbering resource misuse reports to ITU-T. How to update Recommendation ITU-T E.156 to reflect today’s numbering misuse and to propose a more efficient means of combating numbering misuse is being considered by SG2.

At its January2013 meeting, it was also agreed to study how TSB could ‘streamline’ the process and make it as automatic as possible. The reporting mechanism is being redesigned to allow for a more user-friendly interface and TSB is working to enable its global membership to receive misuse notification at the earliest possible time. However, it was agreed by SG2 at its meeting of 17-26 September 2013 that the main point of the reporting procedure at this stage is to provide accurate information regarding the numbering misuse to member states through a robust procedure in strict conformance with Recommendation ITU-T E.156 even if such reporting is not provided in “real time”. Such a reporting procedure would also have merits since the reporter is sure that the information is sent to the legitimate assignee of the resource.

Action Item 20-04: TSB and SG2

Notifications of national numbering/identification plan update and assignment or reclamation of national numbering/identification resources were received and published in the ITU Operational Bulletin. The ITU Operational Bulletin is now published in the six official languages.

DNS-based use of international numbering resources was discussed by SG2 in its meeting of 17-26 September 2013. It was agreed to invite the Director of TSB to initiate a correspondence between the ITU-T and ICANN, seeking assistance in understanding issues related to registering digit strings in the .TEL domain that appear to be of similar length and format of international telephone numbers. The Director of TSB has sent a letter dated 11 October 2013 to the President & CEO of ICANN and a response dated 29 October 2013 has been received. A conference call was held on 4th November 2013. The Director of TSB further explained ITU’s concern during the meeting. Another letter from the Director of TSB dated 3 Feb. 2014 provided a brief explanation of Recommendation ITU-T E.164, the International Public Telecommunication Numbering Plan, and some preliminary thoughts on the validation requirements on ICANN’s request. Points raised by ITU-T SG2 were mentioned again and a request made to receive ICANN’s response in time for the forthcoming ITU-T SG2 meeting 28 May - 6 June 2014. No response has been received from ICANN to the issues raised in both letters and the teleconference. More info see [C14/INF21](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=S14-CL-INF-0021).

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# Resolution 22 - Authorization for Telecommunication Standardization Advisory Group to act between world telecommunication standardization assemblies

**Resolution 22**

resolves

1 to assign to TSAG the following specific matters within its competence between this assembly and the next assembly to act in the following areas in consultation with the Director of TSB, as appropriate:

*a)* maintain up-to-date, efficient and flexible working guidelines;

*b)* assume responsibility, including development and submission for approval under appropriate procedures, for the ITU‑T A‑series Recommendations (Organization of the work of ITU‑T);

*c)* restructure and establish ITU‑T study groups and assign chairmen and vice‑chairmen to act until the next WTSA in response to changes in the telecommunication marketplace;

*d)* issue advice on study group schedules to meet standardization priorities;

*e)* while recognizing the primacy of the study groups in carrying out the activities of ITU‑T, create, terminate or maintain other groups, including focus groups, appoint their chairmen and vice-chairmen, and establish their terms of reference with a defined duration, in accordance with Nos. 191A and 191B of the Convention, in order to enhance and improve the effectiveness of ITU‑T's work as well as promoting flexibility in responding rapidly to high-priority issues; such groups shall not adopt Questions or Recommendations, in accordance with Article 14A of the Convention, but work on a specific mandate;

*f)* review reports of and consider appropriate proposals made by coordination groups and other groups, and implement those that are agreed;

*g)* establish the appropriate mechanism and encourage the utilization, for example, of coordination groups or other groups, to address key topics of work which span several study groups, with a view to ensuring effective coordination of standardization topics in order to achieve suitable global solutions;

*h)* advise the Director of TSB on financial and other matters;

*i)* approve the programme of work arising from the review of existing and new Questions and determine the priority, urgency, estimated financial implications and time-scale for the completion of their study;

*j)* group, as far as practicable, Questions of interest to developing countries, including the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition, in order to facilitate their participation in these studies;

*k)* address other specific matters within the competence of WTSA, subject to the approval of Member States, using the approval procedure contained in Resolution 1 (Rev. Dubai, 2012) of this assembly, Section 9;

2 that revisions to the relevant procedures for the adoption of Questions and Recommendations by study groups, other than those referred to in Nos. 246D, 246F and 246H of the Convention, may be initiated by TSAG for approval by Member States between WTSAs, using the approval procedure contained in Resolution 1 (Rev. Dubai, 2012) of this assembly, Section 9;

3 that TSAG provide liaison on its activities to organizations outside ITU in consultation with the Director of TSB, as appropriate;

4 that TSAG consider the implications, for ITU‑T, of market needs and new emerging technologies that have not yet been considered for standardization by ITU‑T, establish an appropriate mechanism to facilitate the examination of their consideration, for example assigning Questions, coordinating the work of study groups or establishing coordination groups or other groups, and nominate their chairmen and vice-chairmen;

5 that TSAG consider the result of this assembly concerning GSS and take follow-up actions, as appropriate;

6 that a report on the above TSAG activities shall be submitted to the next WTSA.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [22-01](#Item22_01) | TSAG to consider results of WTSA concerning GSS, for appropriate action (Resolves 5) | June 2013 |  | √ |
| [22-02](#Item22_02) | TSAG to establish an appropriate mechanism to examine and coordinate work on emerging technologies (Resolves 4) | June 2013 |  | √ |
| [22-03](#Item22_03) | TSAG report on its activities to WTSA-16 (Resolves 6) | Last TSAG before WTSA-16 |  |  |

**Action Item 22-01: TSAG and Review Committee**

Done at their first meeting in the study period (June 2013).

**Action Item 22-02: TSAG**

Done at their first meeting in the study period (June 2013).

**Action Item 22-03: TSAG**

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# Resolution 29 - Alternative calling procedures on international telecommunication networks

**Resolution 29**

resolves

1 that administrations and operating agencies authorized by Member States should take, to the furthest extent practicable, all measures to suspend the methods and practices of call-back which seriously degrade the quality and the performance of the PSTN, such as constant calling (or bombardment or polling) and answer suppression;

2 that administrations and operating agencies authorized by Member States should take a cooperative approach to respecting the national sovereignty of others, and suggested guidelines for this collaboration are attached;

3 to continue developing appropriate Recommendations concerning alternative calling procedures and, in particular, the technical aspects of the methods and practices of call-back which seriously degrade the quality and the performance of the PSTN, such as constant calling (or bombardment or polling) and answer suppression;

4 to instruct ITU-T Study Group 2 to study other aspects and forms of alternative calling procedures, including refiling and non-identification, and service definition and requirements for hubbing;

5 to instruct ITU-T Study Group 3 to study the economic effects of call-back, refiling and inappropriate hubbing and other forms of alternative calling procedures, as well as origin non-identification or spoofing, on the effort of developing countries for sound development of their local telecommunication networks and services, and to evaluate in cooperation with Study Group 2 the effectiveness of the suggested guidelines on call-back,

instructs the Director of the Telecommunication Standardization Bureau

to continue to cooperate with the Director of the Telecommunication Development Bureau in order to facilitate the participation of developing countries in these studies and to make use of the results of the studies, and in the implementation of this resolution.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [29-01](#Item29_01) | SG2 to study other aspects and forms of alternative calling procedures, including refilling, non-identification and hubbing | Ongoing | √ |  |
| [29-02](#Item29_02) | SG3 to study the economic effects of call-back, refilling and inappropriate hubbing, spoofing, etc on the effort of developing countries for sound development of their local telecommunication networks and services, and to evaluate with SG2 the effectiveness of the suggested guidelines for consultation on call-back | Ongoing | √ |  |
| [29-03](#Item29_03) | Director to facilitate developing countries’ participation and make use of the work/studies of SG2 and SG3 on alternative calling procedures | Ongoing | √ |  |

**Action Item 29-01: SG2**

Non-identification issue was discussed at the SG2 meeting (17-26 September 2013). An ITU workshop on Caller ID Spoofing was held on 2 June 2014 during the SG2 meeting (Geneva, 28 May-6 June 2014).

Action Item 29-02: SG3 and SG2

A conference call was held between the TSB, the SG2 and SG3 Chairmen on 30 April 2013.

A TD sourced by the SG2 and SG3 Chairmen with the title of Areas for cooperation between SG2 and SG3 following WTSA-12 Resolutions has been agreed. Areas, breakdown of areas and modalities of cooperation for SG2 and SG3 as to WTSA-12 Resolutions 29, 61, 64 and 65 were proposed.

A joint ITU-T SG3 and SG2 Correspondence Group was proposed in 2013 to study the economic impact of call-back, refiling and inappropriate hubbing, and other forms of alternative calling procedures as well as origin non-identification or spoofing. SG3 proposed Terms of Reference to SG2. At its May 2014 meeting, SG3 accepted proposed changes by SG2 to that the Terms of Reference (via liaison statement) are ready and collaborative work can begin.

Action Item 29-03: TSB

The ad hoc group on developing countries met during the ITU- T SG2 meeting (22 – 31 January 2013). It was agreed that the SG2 Regional Groups should pay special attention to the relevant articles of the new ITRs and all WTSA-12 Resolutions related to SG2 and is of concern to developing countries, and to be reminded and encouraged to submit contributions in this regard to the next SG2 meeting. This point was raised again when the ad hoc group on developing countries met during the SG2 meeting (Geneva, 17-26 September 2013).

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# Resolution 31 - Admission of entities or organizations to participate as Associates in the work of the ITU-T Telecommunication Standardization Sector

**Resolution 31**

resolves

1 that an interested entity or organization may join ITU‑T as an Associate and be entitled to take part in the work of a selected single study group;

2 that Associates are limited to the study group roles described below and excluded from all others:

• Associates may take part in the process of preparing Recommendations within a study group, including the following roles: meeting participant, contribution submitter, Recommendation editor, and, during the alternative approval process, provider of comments during the last-call period (but not during the additional review period);

• Associates may have access to documentation required for their work;

• an Associate may serve as rapporteur, responsible for directing the studies for the relevant study Question within the selected study group, except for taking part in any decision-making or liaison activities which are to be handled separately, in accordance with No. 248B of the Convention;

3 that the amount of the financial contribution for Associates be based upon the contributory unit for Sector Members as determined by Council for any particular biennial budgetary period,

requests

1 the Secretary-General to admit entities or organizations to participate as Associates in the work of a given study group or subgroups thereof following the principles set out in Nos. 241B, 241C, 241D and 241E of the Convention;

2 the Telecommunication Standardization Advisory Group to review on an ongoing basis the conditions governing the participation (including financial impact on the Sector budget) of Associates based on the experience gained within ITU‑T,

instructs the Director of the Telecommunication Standardization Bureau

to prepare the necessary logistics for the participation of Associates in the work of ITU‑T, including possible impacts of study group reorganization.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [31-01](#Item31_01) | TSAG to review conditions governing participation of Associates | Ongoing |  |  |
| [31-02](#Item31_02) | Director to continue to provide necessary logistics for participation of Associates | Ongoing | √ |  |

**Action Item 31-01: TSAG**

Action Item 31-02: TSB

All necessary logistics is being provided.

The participation of Associates continues to grow despite a slight drop in 2013:

* 31 December 2010: 125 Associates
* 31 December 2011: 136 Associates
* 31 December 2012: 144 Associates
* 31 December 2013: 139 Associates
* 15 April 2014: 143 Associates

New Associates have joined all ITU-T Study Groups, but with ITU-T SG 15 profiting the most, followed by ITU-T SG2.

The current list of Associates may be found at [http://itu.int/online/mm/scripts/mm.list?‌\_search=ASSOCIATES](http://itu.int/online/mm/scripts/mm.list?_search=ASSOCIATES).

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# Resolution 32 - Strengthening electronic working methods for the work of the ITU-T Telecommunication Standardization Sector

**Resolution 32**

resolves

1 that the principal EWM objectives of ITU‑T are:

• that collaboration between members on development of Recommendations should be by electronic means;

• that TSB, in close collaboration with the ITU Telecommunication Development Bureau (BDT), should provide facilities and capabilities for EWM at ITU-T meetings, workshops and training courses, particularly to assist developing countries that have bandwidth limitations and other constraints;

• to encourage electronic participation of developing countries in ITU-T meetings, by providing simplified facilities and guidelines, and by waiving any expenses for those participants, other than the local call or Internet connectivity charges;

• that TSB, in close collaboration with BDT, should provide facilities and capabilities for EWM at ITU-T meetings, workshops and training courses, and encourage participation of developing countries, by waiving, within the credits that the Council is empowered to authorize, any expenses for those participants, other than the local call or Internet connectivity charges;

• that TSB should provide all members of ITU‑T with appropriate and ready access to electronic documentation for their work, including a global, unified and consolidated view of document traceability;

• that TSB should provide appropriate systems and facilities to support the conduct of ITU‑T's work by electronic means; and

• that all activities, procedures, studies and reports of ITU-T study groups be posted on the ITU-T website so as to facilitate navigation to find all relevant information,

2 that these objectives should be systematically addressed in an EWM action plan, including individual action items identified by the ITU‑T membership or TSB, and prioritized and managed by TSB with the advice of the Telecommunication Standardization Advisory Group (TSAG),

instructs

1 the Director of TSB to:

• maintain the EWM Action Plan to address the practical and physical aspects of increasing the EWM capability of ITU‑T;

• identify and review costs and benefits of the action items on a regular basis;

• report to each meeting of TSAG the status of the Action Plan, including the results of the cost and benefit reviews described above;

• provide the executive authority, budget within TSB, and resources to execute the Action Plan with all possible speed;

• develop and disseminate guidelines for the use of ITU‑T EWM facilities and capabilities;

• take action, in order to provide appropriate electronic participation or observation facilities (e.g. webcast, audioconference, webconference/document sharing, videoconference, etc.) in ITU‑T meetings, workshops and training courses for delegates unable to attend events in person and to coordinate with BDT to assist in the provision of such facilities; and

• provide an ITU-T website that is easy to navigate to find all relevant information,

2 the TSAG EWM Working Party to continue to:

• act as the point of contact between ITU‑T membership and TSB on EWM matters, in particular providing feedback and advice on the contents, prioritization and implementation of the Action Plan;

• identify user needs and plan the introduction of suitable measures through appropriate subgroups and pilot programmes;

• request study group chairmen to identify EWM liaisons;

• encourage participation by all participants in the work of ITU‑T, especially EWM experts from TSAG, the study groups, TSB and appropriate ITU Bureaux and departments;

• continue its work electronically outside TSAG meetings as necessary to carry out its objectives.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [32-01](#Item32_01) | TSB to maintain EWM Action Plan  | Ongoing | √ |  |
| [32-02](#Item32_02) | TSB to review and recommend new and revised capabilities of ITU-T tools and applications, and report status of EWM Action Plan to each meeting of TSAG | Ongoing | √ |  |
| [32-03](#Item32_03) | Director to develop budget estimate to implement EWM Action Plan and include it in budget request to Council | Ongoing | √ |  |
| [32-04](#Item32_04) | TSB to develop and disseminate guidelines for use of ITU-T EWM facilities and capabilities | Ongoing | √ |  |
| [32-05](#Item32_05) | TSAG EWM Working Party to provide feedback and advice on the EWM Action Plan to TSB at each meeting | Ongoing | √ |  |

Action Item 32-01: TSB

EWM Action Plan is being maintained and progress reports by EWM are regularly provided to TSAG.

Action Item 32-02: TSB

TSB in close collaboration with the ITU IS Department developed and introduced several new electronic applications and services and further enhanced existing electronic facilities to support and improve the electronic working methods of the members. Since TSAG June 2013, key achievements include:

A new online collaborative platform has been developed to further improve the electronic working methods of ITU-T Study Groups. Based on SharePoint, the collaboration site allows members to conduct on-line discussions and work on documents in a secure and shared environment. Several categories for on-line discussions based on the current structures of the different Study Groups have been created and are now available to be used. In addition, basic social media functionalities are available to encourage lively and productive discussions between the members. The members are invited to try and use the new ITU-T Study Groups SharePoint collaboration sites and provide us with feedback or suggestions for improvements. The ITU-T Study Groups SharePoint collaboration sites are restricted to ITU-T Members and may be accessed using a TIES account here: <https://extranet.itu.int/ITU-T/2013-2016/SitePages/Home.aspx>

A new version of the Meeting Documents Sync Application has been developed and it now allows selective download of documents, such as Contributions and TDs according to WPs. The new version also provides the option to sync documents from past meetings.

Starting January 2014, TSB is providing Adobe Connect as the remote participation tool for all official ITU-T meetings that are held in ITU HQ in Geneva. In addition, users can use their TIES accounts to access sessions that require login details. Having two possibilities, **TIES secured** or **open to guest** sessions, adds more flexibility and security when setting up the sessions and simplifies the login procedure for all participants.

In 2013, a total of **1278** e-Meetings were provided by TSB using GoToMeeting and Adobe Connect. This resulted in **5952** online attendees.

Action Item 32-03: TSB

April 2014: the four-year rolling Operational Plan, including resource requirements, was submitted to Council-2014 (which approved it) in document C14/29 available in <http://www.itu.int/md/S14-CL-C-0029/en>. It was also submitted to TSAG June 2014.

Action Item 32-04: TSB

A SharePoint collaboration site has been developed to allow members to connect with TSB EWM staff and get support and professional advice on the different TSB EWM electronic services. A knowledge base of frequently asked questions which will be useful in addressing future requests for support or information is expected to develop from the online support discussion areas. The new TSB EWM Services Support site is available at: <https://extranet.itu.int/ITU-T/ewm/SitePages/Home.aspx>.

Access to remote participation sessions provided for ITU-T meetings has been simplified. From now on you can use your TIES account to join a specific session remotely, provided that your account has sufficient privileges for that meeting. A dedicated e-Meetings webpage has been created, listing all upcoming meetings with their relative e-meeting URL. A short user guide for those who are not yet familiar with Adobe Connect tool is also available. The webpage is accessible at: <http://www.itu.int/en/ITU-T/events/Pages/emeetings.aspx>.

Action Item 32-05: TSAG

A SharePoint collaboration site has been created for TSAG and several discussion categories based on the current structure of TSAG including an area for Working Methods have been set up at: <https://extranet.itu.int/ITU-T/2013-2016/tsag>.

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# Resolution 33 - Guidelines for strategic activities of the ITU Telecommunication Standardization Sector

**Resolution 33**

resolves to invite Member States and Sector Members

to continue contributing their insights on the strategic plan and priorities of ITU‑T to the TSAG strategic planning process,

instructs the Telecommunication Standardization Advisory Group

1 to monitor the Sector's work during the current study period in light of the current strategic plan adopted in Resolution 71 (Rev. Guadalajara, 2010) and the evolution of the telecommunication environment, including:

• setting appropriate priorities during the course of the study period in order to achieve the Sector's objectives against which the performance of the Sector can be measured;

• obtaining regular reports from study group chairmen and other responsible entities as to the achievement of such priorities;

• implementing appropriate action to enable priorities and strategic objectives to be amended in light of changes in the telecommunication environment, or non-achievement of anticipated events;

• evaluating the continuing relevance and applicability of the current plan and proposing the necessary changes, as required;

2 to prepare proposals to assist in preparation of the Union's draft strategic plan for the coming study period that duly reflect:

• the main objectives in the current strategic plan that continue to be relevant;

• new and converging technologies, their priority outcomes and the need to develop, rapidly and reliably, appropriate global standards;

• ongoing and new changes in the telecommunication environment;

• the need to define clearly, and establish broadly, formal relationships with the broadest practicable population of international, regional and other standardization bodies, based on guidelines already agreed in relevant ITU‑T A-series Recommendations, and to implement the relevant conclusions of the Global Standards Symposium (GSS), in accordance with Resolution 122 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference;

• the ongoing evolution in the role of ITU‑T, which needs to be increasingly inclusive of market dynamics, and needs to coordinate and cooperate, for mutual benefit, with other relevant entities, in order to accelerate the efficient development of internationally useful standards;

• the implementation of Resolution 123 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference, on bridging the standardization gap between developed and developing countries, including the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [33-01](#Item33_01) | TSAG to monitor Sector's work, setting priorities and implementing appropriate actions at each meeting | Ongoing | √ |  |
| [33-02](#Item33_02) | TSAG to prepare proposals for preparation of the Union's strategic plan for reporting to Council 2014 | June 2014  |  |  |
| [33-03](#Item33_03) | TSAG to prepare proposals for drafting ITU-T portion of Strategic Plan at July 2014 meeting  | June 2014 |  |  |
| [33-04](#Item33_04) | TSAG to prepare proposals for action by WTSA-16 | Last TSAG before WTSA-16 |  |  |

**Action Item 33-01: TSAG**

Review is performed on a regular basis based on information received.

**Action Item 33-02 & 33-03: TSAG**

At its June 2013 meeting, TSAG established the TSAG Rapporteur Group on the Strategic Plan.

The status of the discussions of the Strategic Plan at Council May 2014 has been submitted to TSAG.

**Action Item 33-04: TSAG**

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# Resolution 34 - Voluntary contributions

**Resolution 34**

resolves

1 to encourage the financing of specific projects, focus groups or other new initiatives, including any activities which help achieve the objectives of Resolution 44 (Rev. Dubai, 2012) of this assembly, on bridging the standardization gap, by voluntary contributions;

2 to invite Sector Members and Associates to finance voluntarily the participation of developing countries, and in particular remote participation using electronic working methods, in ITU-T meetings and workshops;

3 to invite Member States, Sector Members and Associates from both developing and developed countries to submit to the Director of the Telecommunication Standardization Bureau projects and other initiatives of interest for ITU‑T to be financed under voluntary contributions.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [34-01](#Item34_01) | TSB to solicit Voluntary Contributions for specific activities, e.g., projects, meetings, workshops, EWM | Ongoing | √ |  |
| [34-02](#Item34_02) | TSB presentations at workshops, regional meetings and other promotional events to include encouragement of voluntary contributions to fund new initiatives (also see Resolution 44) | Ongoing | √ |  |

Action Item 34-01: TSB

As the full implementation of the WTSA-12 Resolutions cannot be achieved with the current level of ITU-T resources as all possible efficiency savings have already been made, the TSB Director has therefore appealed to the membership for voluntary contributions to fund extra activities of ITU-T, in accordance with Resolution 34. Voluntary contributions, whether in kind or monetary, can be used to fund specific projects, fellowships, or new initiatives, including any activities which help achieve the objectives of Resolution 44[[1]](#footnote-2).

**Action Item 34-02: TSB**

Voluntary contributions to TSB to fund new initiatives (also see Resolution 44) are frequently encouraged at workshops, regional meetings and other promotional events.

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# Resolution 35 - Appointment and maximum term of office for chairmen and vice chairmen of study groups of the Telecommunication Standardization Sector and of the Telecommunication Standardization Advisory Group

**Resolution 35**

resolves

1 that candidates for the posts of chairmen and vice-chairmen of the ITU-T study groups and candidates for the posts of chairman and vice-chairmen of TSAG should be appointed according to the procedures given in Annex A, the qualifications given in Annex B and the guidelines given in Annex C to this resolution;

2 that candidates for the posts of study group chairmen and vice-chairmen and candidates for the posts of chairman and vice-chairmen of TSAG should be identified, taking into account that, for each study group and for TSAG, WTSA will appoint the chairman and only the number of vice-chairmen deemed necessary for the efficient and effective management and functioning of the group in question, applying the guidelines given in Annex C;

3 that nominations for the posts of study group chairmen and vice‑chairmen or for a post of chairman and vice‑chairmen of TSAG should be accompanied by a biographical profile highlighting the qualifications of the individuals proposed, taking into careful consideration continuity in participation in ITU-T study groups or TSAG, and that the Director of the Telecommunication Standardization Bureau will circulate the profiles to the heads of delegation present at WTSA;

4 that the term of office for both chairmen and vice-chairmen should not exceed two terms of office between consecutive assemblies;

5 that the term of office in one appointment (e.g. as a vice-chairman) does not count towards the term of office for another appointment (e.g. as a chairman) and that steps should be taken to provide some continuity between chairmen and vice-chairmen;

6 that the interval between assemblies during which a chairman or vice-chairman is elected under No. 244 of the Convention does not count towards the term of office,

invites Member States and Sector Members

to support their successful candidates for such posts in ITU-T, and support and facilitate their task during their term of office.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [35-01](#Item35_01) | Director to issue Circular soliciting candidates for SG chairmen and vice chairmen, especially to make the BSG responsibilities known before the appointment of chairmen/vice-chairmen of TSAG and ITU-T study groups (see also [Resolution 44](#_Resolution_44_-)) and to encourage women experts (see also [Resolution 55](#_Resolution_55_-)) | 31-Jan-16 |  |  |

**Action Item 35-01: TSB**

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# Resolution 38 - Coordination among the three ITU Sectors for activities relating to International Mobile Telecommunications

**Resolution 38**

resolves

1 that ITU‑T maintain a roadmap for all of its standardization activities relating to IMT;

2 that the effective coordination currently established between ITU‑T, ITU‑R and ITU‑D for activities relating to IMT be continued so as to ensure full alignment and harmonization of the work programmes, including the roadmaps, of the three Sectors,

instructs the Director of the Telecommunication Standardization Bureau

to bring this resolution to the attention of the Directors of BR and BDT,

encourages the Directors of the three Bureaux

to investigate new ways to improve the efficiency of ITU work on IMT.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [38-01](#Item38_01) | TSB and SG13 to maintain the roadmap for all standardization activities related to IMT in accordance to each ITU Sector’s responsibilities. | Ongoing | √ |  |

**Action Item 38-01: TSB and SG13**

SG13 set up a permanent Ad-Hoc group to deal with implementation of Resolution 38. The roadmap with IMT standardization activities is under creation.

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# Resolution 40 - Regulatory aspects of work of the ITU Telecommunication Standardization Sector

**Resolution 40**

resolves

1 that, when determining whether a Question or Recommendation has policy or regulatory implications, particularly Questions or Recommendations which relate to tariff and accounting issues, study groups shall more generally consider possible topics such as:

– the right of the public to correspond;

– protection of telecommunication channels and installations;

– use of the limited natural resources of numbering and addressing;

– naming and identification;

– secrecy and authenticity of telecommunications;

– safety of life;

– practices applicable to competitive markets;

– misuse of numbering resources; and

– any other relevant matters, including those identified by a decision of Member States, or recommended by TSAG, or Questions or Recommendations where there is any doubt about their scope;

2 to request TSAG to consult Member States on any relevant issues other than those specified above;

3 to instruct TSAG to study and identify the operational and technical areas related to quality of service/quality of experience (QoS/QoE) of telecommunications/ICTs that might have policy and regulatory nature, taking into account the studies being carried out by the relevant study groups, and report that to the next WTSA,

invites Member States

to contribute actively to the work to be carried out on this matter.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [40-01](#Item40_01) | Study Groups to consider the Resolution when determining whether a Question or Recommendation has policy or regulatory implications | Ongoing | √ |  |
| [40-02](#Item40_02) | TSAG to study and identify the operational and technical areas related to quality of service/quality of experience (QoS/QoE) of telecommunications/ICTs that might have policy and regulatory nature | June 2013 |  |  |

Action Item 40-01: SGs

Study groups apply appropriate Resolutions (e.g., Resolution 1, Resolution 2, Resolution 40) to decide which approval process should be utilized for draft Recommendations.

For SG17, for example, the selection of approval process was done for each Question during the first meeting of the study period. For new or revised questions, the process is applied when developing the question .For Recommendations, the selection of the approval process is considered on a case-by-case basis, as and when work items on recommendations are created.

**Action Item 40-02: TSAG**

Activity not yet started. Contributions are solicited.

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# Resolution 43 - Regional preparations for world telecommunication standardization assemblies

**Resolution 43**

resolves to instruct the Director of the Telecommunication Standardization Bureau

to maintain the organization, within the financial limitations established by the Plenipotentiary Conference, of at least one regional preparatory meeting per region, the closest in time possible to the next WTSA, followed by an informal meeting of the chairmen and vice-chairmen of the regional preparatory meetings and other interested parties, to be held not earlier than twelve months prior to WTSA,

invites the Secretary-General, in cooperation with the Directors of the Bureaux of the three Sectors

1 to consult with Member States and regional and subregional telecommunication organizations on the means by which assistance can be provided in support of their preparations for future WTSAs, including support for the organization of a "Bridging the Standardization Gap Forum" per region to address major issues of the next WTSA of interest to developing countries[[2]](#footnote-3)1;

2 on the basis of such consultations, to assist Member States and regional and subregional telecommunication organizations in such areas as:

i) the organization of informal regional and interregional preparatory meetings, and formal regional preparatory meetings if a region so requests;

ii) the identification of major issues to be resolved by the next WTSA;

iii) the development of coordination methods;

iv) the organization of information sessions on expected work for WTSA;

3 to submit, no later than the 2013 session of the ITU Council, a report on feedback from Member States concerning WTSA regional preparatory meetings, their results and the application of this resolution,

invites Member States

to participate actively in the implementation of this resolution,

invites regional and subregional telecommunication organizations

1 to participate in coordinating and harmonizing the contributions of their respective Member States in order to generate common proposals where possible;

2 to convene, if possible, informal interregional meetings in order to arrive at interregional common proposals.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [43-01](#Item43_01) | Director to organize, at the request of the region, at least one regional preparatory meeting per region for WTSA-16 between Oct 2015 and June 2016 | 30-Sep-15 |  |  |
| [43-02](#Item43_02) | Director to invite Secretary General to consult Member States and regional telecommunication organizations on the means by which their preparations for WTSA-16 can be supported, including support for a Bridging the Standardization Gap Forum per region. | 30-Jun-15 | √ |  |
| [43-03](#Item43_03) | Director to submit a report to Council on feedback from MSs concerning regional preparatory meetings for WTSA-12. | 01-Apr-13 |  | √ |

**Action Item 43-01: TSB**

Action Item 43-02: TSB and General Secretariat

After WTSA-12, the strategy of organizing regional meetings, co-located with other events, will continue.

The WTSA-12/WCIT debriefing events were held for Asia-Pacific region in Bangkok, Thailand, 7-8 March 2013, Africa region in Durban, South Africa, 10-11 July 2013 and Arab region in Rabat, Morocco, 2-3 Sept 2013.

Action Item 43-03: TSB

Done

In the ITU Activity report to Council 2013 ([C13/35](http://www.itu.int/md/S13-CL-C-0035/en)), the TSB Director reports about the back-to-back regional WTSA-12 and WCIT-12 preparatory meetings in the following regions.

* APT (March, Australia)
* RCC (March, Uzbekistan)
* Arab States (April-May, Egypt)
* Americas (May, Argentina)
* Africa (May, South Africa)
* Caribbean (October, Trinidad & Tobago)

(full details regarding the regional preparatory meetings are found at <http://www.itu.int/en/ITU-T/wtsa-12/prepmeet/Pages/default.aspx> for complete details).

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# Resolution 44 - Bridging the standardization gap between developing and developed countries

**Resolution 44**

resolves

1 that the action plan annexed to this resolution, having the objective of bridging the standardization gap between developed and developing countries, should be continued and be reviewed on an annual basis to take into account the requirements of developing countries;

2 that ITU-T, in collaboration with the other Sectors, as appropriate, shall develop a programme to:

i) assist developing countries in developing methods that facilitate the process of linking innovations to the standardization process;

ii) assist developing countries in developing means to align their national industrial and innovation strategies towards the goal of achieving highest impact on their socio-economic ecosystems;

3 to request the Director of TSB to strengthen cooperation and coordination with the relevant regional organizations, in particular those of the developing countries;

4 that, subject to Council approval, there should be free online access to the manuals, handbooks, directives and other ITU material related to understanding and implementation of ITU‑T Recommendations, particularly in the area of planning, operation and maintenance of telecommunications networks;

5 to support, within available or otherwise contributed resources, and on a case-by-case basis, the coordinated creation of regional groups of ITU-T study groups, and encourage cooperation and collaboration of these groups with other regional standardization entities;

6 to maintain in the annual budget of the Union a separate expenditure line item for bridging the standardization gap activities, while at the same time voluntary contributions should be further encouraged;

7 that the responsibilities of all vice-chairmen and chairmen from developing countries appointed to leadership positions in TSAG and in ITU‑T study groups include, among others:

i) closely work with ITU members in the region in order to mobilize them to participate in ITU standardization activities to assist in bridging the standardization gap;

ii) make mobilization and participation reports to the ITU body concerning the region;

iii) prepare and submit a mobilization programme for the regions that they represent at the first meeting of TSAG or a study group and send a report to TSAG,

further resolves that ITU regional offices

1 be engaged in the activities of TSB in order to promote and coordinate standardization activities in their regions to support the implementation of the relevant parts of this resolution and to carry out the objectives of the action plan, and launch campaigns to attract new Sector Members, Associates and Academia from developing countries to join ITU-T;

2 assist the vice-chairmen, within the offices' budgets, in mobilizing members within their respective regions for increased standardization participation;

3 organize and coordinate the activities of the regional groups of ITU-T study groups;

4 provide the necessary assistance to the regional groups of ITU-T study groups;

5 provide assistance to the regional telecommunication organizations for the setting-up and management of regional standardization bodies,

invites the Council

1 to increase the ITU-T budgetary provisions for fellowships, interpretation and translation of documents for meetings of TSAG, ITU-T study groups and regional groups of ITU-T study groups;

2 to encourage the establishment of a specialized panel for stimulating ICT innovations, under ITU-T, with the objective of enhancing global collaborative innovation in order to bridge the standardization gap between developed and developing countries and to identify and support innovations from developing countries;

3 to report, as appropriate, on this matter to the 2014 plenipotentiary conference;

4 to advise the 2014 plenipotentiary conference on its implementation of *invites the Council*,

instructs the Director of the Telecommunication Standardization Bureau, in collaboration with the Directors of Telecommunication Development Bureau and the Radiocommunication Bureau, within available resources

1 to continue implementing the objectives of the action plan annexed to this resolution;

2 to assist developing countries with their studies, particularly in respect of their priority questions and towards developing and implementing ITU-T Recommendations;

3 to continue the activities of the implementation group established within TSB to organize, mobilize resources, coordinate efforts and monitor work related to this resolution and the associated action plan;

4 to take the appropriate actions in respect of each new ITU-T Recommendation having implementation aspects, and consider the need for developing implementation guidelines;

5 to arrange for the drafting of a set of guidelines on the application of ITU Recommendations at national level, having regard to the provisions of Resolution 168 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference;

6 to provide the support needed for regional mobilization for standardization;

7 to carry out the necessary studies on the role of innovation management and innovation stimulation programmes on bridging the standardization gap between the developed and developing countries;

8 to include in the TSB budget proposal to the ITU Council funds identified for the implementation of this resolution, taking into account financial constraints and existing and planned BDT activities;

9 to assist in institutionalizing the terms of reference, specified in *resolves* 7 abovein the working of TSAG and ITU-T study groups, so as to ensure that the specific responsibilities are made known to aspiring vice-chairmen before their appointment;

10 to report on the implementation of this plan to future world telecommunication standardization assemblies and plenipotentiary conferences, with a view to reviewing this resolution and introducing the appropriate amendments in the light of implementation outcomes, as well as the budgetary adjustments needed to implement this resolution;

11 to provide assistance to developing countries, if requested, in developing guidelines for use by the national entities of the requesting country in order to enhance their participation in ITU-T study groups, with the assistance of the ITU regional offices, for bridging the standardization gap;

12 to enhance use of electronic channels such as webinars or e-learning for education and training on implementation of ITU-T Recommendations;

13 to provide all necessary support for creating and ensuring the smooth functioning of the regional groups;

14 to take all necessary measures to facilitate the organization of meetings and workshops of the regional groups;

15 to report on the effectiveness of the regional groups to the ITU Council;

16 to conduct workshops and seminars, as appropriate, to disseminate information and increase understanding of new Recommendations, in particular for developing countries,

instructs ITU-T study groups and the Telecommunication Standardization Advisory Group

1 to be actively involved in the implementation of the programmes set forth in the action plan annexed to this resolution;

2 to coordinate joint meetings of regional groups of ITU-T study groups,

further instructs the study groups

1 to take account of the specific characteristics of the telecommunication environment of the developing countries in the process of establishing standards in the fields of planning, services, systems, operation, tariffs and maintenance, and to provide solutions/options relevant to developing countries wherever possible;

2 to take appropriate steps to have studies carried out on questions connected with standardization which are identified by world telecommunication development conferences;

3 to continue liaising with study groups of the ITU Telecommunication Development Sector, where appropriate, when developing new or revised ITU-T Recommendations, on the specific needs and requirements of developing countries, in order to broaden the appeal and applicability of the Recommendations in those countries,

invites the Director of the Telecommunication Standardization Bureau

1 to work closely with the Directors of BDT and the Radiocommunication Bureau (BR) in order to encourage the formation of partnerships under the patronage of ITU-T as one of the means for financing the action plan;

2 to consider, whenever possible, holding workshops concurrently with meetings of the ITU-T regional groups, in coordination and collaboration with the Director of BDT,

invites regions and their Member States

1 to pursue the creation of regional groups of parent ITU-T study groups in their respective regions in accordance with *resolves* 5 of this resolution and Resolution 54 (Rev. Dubai, 2012) of this assembly, and to support their meetings and activities, as appropriate, in coordination with TSB;

2 to take an active part in the activities of the ITU-T regional groups and support regional organizations in setting up regional frameworks for the development of standardization activities;

3 to create regional standardization bodies, as appropriate, and encourage joint and coordinated meetings of such bodies with the regional groups of the ITU-T study groups in the respective regions, so that these standardization bodies act as an umbrella for such regional group meetings;

4 to develop draft terms of reference and working methods for regional groups, which are to be approved by the parent study group,

encourages Member States and Sector Members

to take the objectives set out in the action plan in the annex to this resolution into account in their participation in ITU‑T.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [44-01](#Item44_01) | TSB to continue BSG action plan in annex and review on an annual basis | Ongoing | √ |  |
| [44-02](#Item44_02) | TSB to develop a programme to assist developing countries to develop methods and means to link national innovations to standardization process | Ongoing | √ |  |
| [44-03](#Item44_03) | TSB Dir to strengthen cooperation and coordination with regional organizations, particularly of developing countries | Ongoing | √ |  |
| [44-04](#Item44_04) | TSB Dir to propose for Council to consider free online access to manuals, handbooks, directives and other ITU material to implement ITU-T Recommendations. | Council 2013 |  |  |
| [44-05](#Item44_05) | TSB further encourage voluntary contributions to the bridging the standardization gap fund (see also [Resolution 34](#Resolution_34)) | Ongoing | √ |  |
| [44-06](#Item44_06) | SGs to mobilize chairmen and vice-chairmen from developing countries for BSG at first meeting and report to TSAG | TSAG 2013 | √ |  |
| [44-07](#Item44_07) | ITU regional offices to be engaged in implementation of BSG action plan, assist to increase standardization participation, attract new ITU-T membership, organize/coordinate/assist regional groups of ITU-T SG, assist regional telecommunication organization for the setting-up and management of regional standardization bodies. | Ongoing | √ |  |
| [44-08](#Item44_08) | TSB Director to propose for Council to consider to maintain in the annual budget of the Union a separate expenditure line item for BSG and propose the funds identified for implementation of this resolution, and to increase ITU-T budgetary provisions for fellowships, interpretation and translation of documents for meetings of TSAG, ITU-T SGs and regional groups of ITU-T SGs.  | Council 2013 |  | √ |
| [44-09](#Item44_09) | TSB Director to propose for Council to consider to establish a specialized panel for stimulating ICT innovations, under ITU-T | Council 2013 | √ |  |
| [44-10](#Item44_10) | Council to report and advise to PP-14 on the establishment of the specialized panel for stimulating ICT innovations, under ITU-T | Council 2014 |  |  |
| [44-11](#Item44_11) | SGs to take account of specific characteristics of telecommunication environment in developing countries, and provide solutions/options relevant to developing countries wherever possible. | Ongoing | √ |  |
| [44-12](#Item44_12) | SGs to continue liaise with ITU-D SGs, to assist developing countries with their priority questions for studies, such as identified by WTDC | Ongoing | √ |  |
| [44-13](#Item44_13) | SGs to consider the need for developing implementation guidelines for new ITU-T Recs having implementation aspects, drafting guidelines of ITU-T Recs at national level regarding to PP Res.168. | Ongoing | √ |  |
| [44-14](#Item44_14) | SGs and TSAG to coordinate joint meetings of regional groups | Ongoing | √ |  |
| [44-15](#Item44_15) | Director to continue the activities of the Bridging the Standardization Gap (BSG) implementation group within TSB.  | Ongoing | √ |  |
| [44-16](#Item44_16) | TSB Dir to carry out necessary studies on the role of innovation management and innovation stimulation programmes on BSG between developed and developing countries. | tbd |  |  |
| [44-17](#Item44_17) | TSB Dir to institutionalize the BSG responsibilities of chairmen/vice-chairmen of TSAG and ITU-T study groups and made them known before the appointment of ITU-T management leadership (see also [Resolution 35](#_Resolution_35_-)). | TSAG 2015 |  |  |
| [44-18](#Item44_18) | Director to report to future WTSA and PP on implementation of BSG plan to introduce appropriate amendments of implementation outcomes, as well as necessary budgetary adjustments | Council 2013,PP-14, WTSA-16 | √ |  |
| [44-19](#Item44_19) | TSB to assist requested developing countries to develop guidelines to enhance national participation in ITU-T SGs | Ongoing | √ |  |
| [44-20](#Item44_20) | TSB to enhance use of electronic channels such as webinars or e-learning for education and training on implementation of ITU-T Recommendations | Ongoing | √ |  |
| [44-21](#Item44_21) | TSB to provide all necessary support for creation, organization of meeting and workshop of the regional groups to ensure their smooth functioning.  | Ongoing | √ |  |
| [44-22](#Item44_22) | TSB Dir to report the effectiveness of regional groups to Council  | Council 2013 | √ |  |
| [44-23](#Item44_23) | TSB Dir to work closely with BR and BDT Dirs, to encourage partnership under the patronage of ITU-T as one of the means for financing the BSG action plan | Ongoing | √ |  |
| [44-24](#Item44_24) | TSB to conduct BSG workshops and seminars for developing countries, concurrently with meetings of ITU-T regional groups if possible, in coordination/collaboration with ITU-D | Ongoing | √ |  |
| [44-25](#Item44_25) | Member States and regions to encourage the creation of regional standardization bodies as appropriate, and joint and coordinated meetings of such bodies with regional groups.  | Ongoing |  |  |
| [44-26](#Item44_26) | Developing guidelines to assist developing countries in their involvement in ITU-T activities, such as but not limited to, ITU-T working methods, formulating draft Questions and in making proposals. | Ongoing |  |  |
| [44-27](#Item44_27) | Improve and promote the use of an electronic forum for “questions and answers on standards” where developing countries can raise questions concerning their understanding and application of Recommendations and seek advice from study group experts. | Ongoing | √ |  |
| [44-28](#Item44_28) | In close collaboration with BDT and BR, providing training courses on standardization to developing countries.  | Ongoing |  |  |
| [44-29](#Item44_29) | Organizing in-depth tutorials on implementation of ITU-T Recommendations.  | Ongoing | √ |  |
| [44-30](#Item44_30) | Provision, by the TSB, of fellowships to eligible countries to attend relevant ITU-T meetings. | Ongoing |  |  |

**Action Item 44-01: TSB**

BSG Task Force is chaired by TSB Director and is working on monitoring progress of implementation of Action Plan in Resolution 44.

Action Item 44-02: TSB

ITU-T Focus Group Bridging the Gap: from Innovation to Standards (FG Innovation) is working on developing means to enable developing countries to bring their innovations to ITU-T for standardization. In this respect, the establishment of an ICT innovation panel is proposed in the deliverable of the FG Innovation as the means for achieving this objective.

**Action Item 44-03: TSB**

TSB is organising one Regional Standardization Forum for each region on an annual basis. In 2014, three Regional Standardization Forums are planned: for the Arab region on 28 January 2014 in Tunis, for the African region on 23-25 June 2014 in Uganda and for the Asia-Pacific region on 25 August 2014 in Bangkok, Thailand,

**Action Item 44-04: TSB**

Action Item 44-05: TSB

The TSB Director has appealed in April 2013 in a Circular Letter to the ITU membership for voluntary contributions to fund extra activities of ITU-T, in accordance with Resolution 34[[3]](#footnote-4). Microsoft has since made another contribution to the fund in 2013.

Action Item [44-06](#Item44_06): TSB

TSB Director invited TSAG at its meeting in June 2013, to establish a Group where Vice-chairs from developing countries can report on their mobilisation programme. SGs were invited to designate mentors to assist new delegates in particular from developing countries in becoming familiarized with the work of the study groups.

**Action Item 44-07: TSB**

BDT is represented in the BSG Task Force as well as the Directors of the ITU Regional Offices. The BSG Task Force is chaired by the TSB Director.

Action Item 44-08: TSB

There is a separate expenditure line item in the annual budget of the Union.

Action Item 44-09: TSB

In his WTSA-12 report to Council 2013 ([C13/22](http://www.itu.int/md/S13-CL-C-0022/en)), the TSB Director invited Council to discuss the establishment of a specialized panel for stimulating ICT innovations, under ITU-T, with the objective of enhancing global collaborative innovation in order to bridge the standardization gap between developed and developing countries and to identify and support innovations from developing countries”. The topic will be discussed further at TSAG June 2014, based on the proposals of the ITU-T Focus Group on Innovation.

**Action Item 44-10: TSB**

**Action Item 44-11: SGs**

Study groups will develop implementation guidelines for new ITU-T Recommendations to enable developing countries to adopt them, based on contributions received.

**Action Item 44-12: SGs**

There has been a regular flow of exchange of information between ITU-T and ITU-D Study groups on matters of expressed common interest. For Study Group 3, for example, there are four annual joint meetings in the regions (BDT Forum and SG meeting). Representatives from the BDT regularly update the delegates on ITU-D study group questions relevant to tariff and accounting matters.

**Action Item 44-13: SGs**

Study groups will develop implementation guidelines for new ITU-T Recommendations to enable developing countries to adopt them, based on received contributions. Examples are the IPTV and e-health areas in SG16.

**Action Item 44-14: SGs and TSAG**

Meetings of Regional Groups are being held back to back where they occur in the same region.

For example, SG3RG-ARB is planning to hold its meetings back to back with the regional meetings for SG5 and SG2 in November 2015.

**Action Item 44-15: TSB**

The BSG Task Force meets every two months under the chairmanship of the TSB Director to review progress on the implementation of WTSA-12 Resolution 44. In 2014, the Directors of the ITU Regional Offices are also invited to participate in the meeting of the BSG Task Force.

Action Item 44-16: TSB

The topic will be discussed at TSAG June 2014, based on the proposals of the ITU-T Focus Group on Innovation.

**Action Item 44-17: TSB, SGs and TSAG**

**Action Item 44-18: TSB**

Action Item 44-19: TSB

TSB has developed a guideline on establishing a national standardization secretariat to coordinate ICT standardization activities at national level and participation in ITU-T Study Groups and meetings. The guideline was launched in March 2014 and is available on the BSG website.

The Guidelines on Establishment of a National Standardization Secretariat (NSS) for ITU-T takes into account the different capability levels for standardization across the developing countries, showing how it is possible to establish an NSS at a basic level with very little new cost or resource requirements. At this “NSS-General Level”, the developing country would focus mainly on the general, high-level activities of ITU-T, such as the World Telecommunication Standardization Assembly (WTSA) and the Telecommunication Standardization Advisory Group (TSAG). It would also accommodate involvement in a limited number of the ITU-T study groups through creation of ad hoc groups on an as-needed basis.

Moving to a level of greater involvement in ITU-T when a developing country is engaged in several of the ITU-T study groups on a continuous basis, the NSS can easily evolve from an “NSS-General Level” to an “NSS-Study Group Level” by adding some additional national committees to cover study groups of interest, adding some additional support staff and upgrading former ad hoc national groups to permanent national study groups.

Finally, for developing countries engaged in all or nearly all of the ITU-T study groups, the Guidelines show how an NSS can smoothly evolve from an “NSS-Study Group Level” to an “NSS-Full Sector Level”. For the option of an NSS-Full Sector Level structure, there would be a national study group for each of the ITU-T study groups, with a corresponding increase in secretariat support functions, including maintenance of a website and a document archive system.

In all three options (i.e., NSS-General Level, NSS-Study Group Level and NSS-Full Sector Level), the same Responsible Agency of the government which has been given authority for relations with the ITU-T would be responsible for the organization and operation of the NSS. Each of the subordinate national committees comprising the NSS, relating to e.g., WTSA, TSAG or particular ITU-T study groups, reports its proposals and advice to the Responsible Agency for formal approval on behalf of the Member State. Estimates of human and financial resources for each of the three NSS options are provided.

The Guidelines show, for each group within the NSS, information on its responsibilities, leadership, membership and working methods. The Guidelines also include a step-by-step roadmap to assist developing countries to establish a National Standardization Secretariat from the initial determination of the legal basis for the Responsible Agency to organize and manage an NSS process, to determination of human and financial resource requirements and establishment of the appropriate national level committees and appointment of their leadership.

Action Item 44-20: TSB

TSB has developed an e-learning course on Recommendation ITU-T A.1: Working Methods of ITU-T study groups in 2013. This course is hosted on the ITU Academy platform and was launched in February 2014. The main objectives of the e-learning course are to introduce the structures, management, coordination mechanisms and operating procedures of ITU-T study groups as defined in Recommendation ITU-T A.1.

Recommendation ITU-T A.1 describes general working methods for ITU-T study groups. It provides guidelines related to work methods, such as the conduct of meetings, preparation of studies, management of study groups, the role of Rapporteurs and the processing of ITU-T contributions and temporary documents. The course is intended for delegates participating in ITU-T study group meetings, especially new participants.

The course consists of six modules:

* Standardization in ITU-T
* Managing the study groups
* Coordination
* Inputs to the study groups
* Outputs of the study groups
* Further infrastructure supporting the study group process

Each module is a self-contained unit, including course content and quizzes. After going through the course, participants need to take a final assessment online which upon scoring at least 80%, they can obtain a certificate of achievement.

The course is available on the ITU Academy website at <http://academy.itu.int> or using the link <http://academy.itu.int/index.php/component/k2/item/1115>.

TSB is planning to develop further e-learning courses on ITU-T Recommendations during the coming years. Partnerships with academia and Sector Members will be explored for the content development for the courses.

Action Item 44-21: TSB

Implemented in the context of [44-24](#Item44_24) (see below).

Action Item 44-22: TSB

TSB Director reported on the effectiveness of regional Groups to Council-14.

Action Item 44-23: TSB

BDT is represented in the BSG Task Force as well as the Directors of the ITU Regional Offices.

Action Item 44-24: TSB

One regional Bridging the Standardization Gap workshop was held in Myanmar in 2013. BSG workshops are now referred to as Regional Standardization Forum and are held back to back with Regional Group meeting wherever there is a request. In 2013, a workshop on Quality of Service for Mobile Networks is being held for the Regional Group of SG12 in Africa and another workshop on Management of e-waste is being held for Regional Group of SG5 in Africa

Study Group 3 held its regional meeting for the African region in Congo (Brazzaville) from 20-21 February 2014. The SG3 regional meeting for the Latin American and Caribbean region was held in San Jose (Costa Rica) from 13-14 March 2014. The SG3 regional meeting for the Arab States was held in Manama (Bahrain) from 29-30 October 2013. All three SG3 regional meetings were held in collaboration with BDT Regional Economic and Financial Forums.

In 2014, three Regional Standardization Forums are planned: for the Arab region on 28 January 2014 in Tunis, for the African region on 23-25 June 2014 in Uganda and for the Asia-Pacific region on 25 August 2014 in Bangkok, Thailand.

Action Item 44-26: TSB

Action Item 44-27: TSB

The Standards Q&A Forum is being reviewed and enhanced in 2013 to provide a more intuitive user interface. A webinar will be held during each Study Group meeting on topics of interest for developing countries encouraging questions from the audience to be posted on the Standards Q&A website.

Action Item 44-28: TSB

Action Item 44-29: TSB

The e-learning course on Recommendation ITU-T A.1: Working Methods of ITU-T study groups is available on the ITU Academy website at <http://academy.itu.int> or using the link <http://academy.itu.int/index.php/component/k2/item/1115>.

TSB is planning to develop further e-learning courses on ITU-T Recommendations during the coming years. Partnerships with academia and Sector Members will be explored for the content development for the courses.

Action Item 44-30: TSB

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# Resolution 45 - Effective coordination of standardization work across study groups in the ITU Telecommunication Standardization Sector and the role of the ITU Telecommunication Standardization Advisory Group

**Resolution 45**

resolves

that the coordination of ITU‑T activities in regard to high-priority standardization issues and work related to more than one study group should ensure:

i) the identification of high-level objectives and priorities for ITU‑T studies from a global viewpoint;

ii) cooperation between study groups, including the avoidance of duplication of work and the identification of linkages between related work items;

iii) the planned coordination of time-frames, deliverables, objectives and milestones for standardization activities;

iv) that the interests of developing countries are taken into account and that their involvement in these activities is encouraged and facilitated;

v) cooperation and coordination with the ITU Radiocommunication and Telecommunication Development Sectors and with other, external, standardization bodies,

instructs the Telecommunication Standardization Advisory Group

1 to take an active role in ensuring coordination between study groups, particularly on high-priority standardization issues that are being studied in more than one study group, including by inviting coordination groups to hold the necessary meetings to achieve the objectives set for them;

2 to take into account, and implement as necessary, advice given to TSAG by other groups established in the interests of effective coordination on high-priority and joint standardization topics.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [45-01](#Item45_01) | TSAG, at each meeting, to review status on the coordination of standardization work involving multiple study groups, ITU-R and/or ITU-D, and take necessary action to ensure effective coordination. | Ongoing | √ |  |

Action Item 45-01: TSAG

Review is performed on a regular basis based on information received. Collaboration with ITU-R and ITU-D are standing items on the agenda of TSAG.

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# Resolution 47 - Country code top-level domain names

**Resolution 47**

instructs ITU-T Study Group 2

to continue studies, and to work with Member States and Sector Members, in their respective roles, recognizing the activities of other appropriate entities, to review Member States' ccTLD experiences,

instructs the Director of the Telecommunication Standardization Bureau

to take appropriate action to facilitate the above and to report to the ITU Council annually regarding the progress achieved in this area,

invites Member States

to contribute to these activities,

further invites Member States

to take appropriate steps within their national legal frameworks to ensure that issues related to delegation of country code top-level domains are resolved.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [47-01](#Item47_01) | SG2 to review and study contributions regarding MS' ccTLD experiences | Ongoing |  |  |
| [47-02](#Item47_02) | Director to report to Council annually regarding progress in ccTLDs. | Ongoing, 3 months before Council | √ |  |

Action Item 47-01: SG2

Actions by ITU-T SG2 depend on Contributions.

Action Item 47-02: TSB

The TSB Director reports in the Council document on “ITU Internet activities: Resolutions 101, 102 and 133” about updates regarding ccTLDs.

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# Resolution 48 - Internationalized (multilingual) domain names

**Resolution 48**

resolves to instruct ITU-T Study Group 16 and other relevant study groups

to continue to study internationalized (multilingual) domain names, and to continue to liaise and cooperate with appropriate entities, whether intergovernmental or non-governmental, in this area,

instructs the Director of the Telecommunication Standardization Bureau

to take appropriate action to facilitate the above and to report to the ITU Council annually regarding the progress achieved in this area,

invites Member States, Sector Members and concerned regional groups

to contribute to these activities.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [48-01](#Item48_01) | SG16, and other relevant SGs, considering input contributions, to study internationalized (multilingual) domain names | Ongoing |  |  |
| [48-02](#Item48_02) | Director to report to Council annually regarding progress achieved in internationalized (multilingual) domain names | Ongoing, 3 months before Council | √ |  |

Action Item 48-01: SG16

Only one contribution was submitted in the previous study period to ITU-T SG16 which resulted in an exchange of Liaison Statements with relevant external organizations. Feedback provided and lack of further activity (including in the current study period) suggests that perhaps the work is complete.

Action Item 48-02: TSB

The TSB Director reports in the Council document on “ITU Internet activities: Resolutions 101, 102 and 133” about updates regarding internationalized domain names.

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# Resolution 49 - ENUM

**Resolution 49**

resolves to instruct ITU-T Study Group 2

1 to study how ITU could have administrative control over changes that could relate to the international telecommunication resources (including naming, numbering, addressing, and routing) used for ENUM;

2 to evaluate the current interim procedure for ENUM delegation, and report back to the Director of the Telecommunication Standardization Bureau,

instructs the Director of the Telecommunication Standardization Bureau

to take appropriate action to facilitate the above and to report to the ITU Council annually regarding the progress achieved in this area,

invites Member States

to contribute to these activities,

further invites Member States

to take appropriate steps within their national legal frameworks to ensure proper implementation of this resolution.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [49-01](#Item49_01) | SG2 to study how ITU could have administrative control over changes that could relate to the international telecommunication resources used for ENUM | Ongoing |  |  |
| [49-02](#Item49_01) | SG2 to evaluate the current interim procedure for ENUM delegation and report back to TSB Dir | Ongoing |  |  |
| [49-03](#Item49_03) | Director to report to Council annually regarding progress achieved in ENUM | Ongoing, 3 months before Council | √ |  |

**Action Items 49-01 and** **49-02: SG2**

Actions by ITU-T SG2 depend on Contributions.

Action Item 49-03: TSB

The TSB Director reports in the Council document on “ITU Internet activities: Resolutions 101, 102 and 133” about updated Information on ENUM including information[[4]](#footnote-5) on approved ENUM delegations and ENUM trials.

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# Resolution 50 - Cybersecurity

**Resolution 50**

resolves

1 that all ITU‑T study groups continue to evaluate existing and evolving new Recommendations, and especially signalling and telecommunication protocol Recommendations, with respect to their robustness of design and potential for exploitation by malicious parties to interfere destructively with their deployment in the global information and telecommunication infrastructure, develop new Recommendations for emerging security issues and take into account new services and applications to be supported by the global telecommunication/ICT infrastructure (e.g. cloud computing, smart grid and intelligent transport systems, which are based on telecommunication/ICT networks);

2 that ITU‑T continue to raise awareness, within its area of operation and influence, of the need to defend information and telecommunication systems against the threat of cyberattack, and continue to promote cooperation among appropriate international and regional organizations in order to enhance exchange of technical information in the field of information and telecommunication network security;

3 that ITU‑T should work closely with ITU‑D, particularly in the context of Question 22/1;

4 that, in assessing networks and protocols for security vulnerabilities and facilitation of exchanging cybersecurity information, ITU‑T Recommendations, including the ITU‑T X-series of Recommendations and Supplements thereto, among them ITU‑T X.805, ITU‑T X.1205, ITU‑T X.1500, ISO/IEC standards and other relevant deliverables from other organizations, be taken into consideration and applied as appropriate;

5 that ITU‑T continue work on the development and improvement of terms and definitions related to building confidence and security in the use of telecommunications/ICTs, including the term cybersecurity;

6 that parties concerned are invited to work together to develop standards and guidelines in order to protect against cyberattacks, and facilitate tracing the source of an attack;

7 that global, consistent and interoperable processes for sharing incident-response related information should be promoted;

8 that all ITU‑T study groups continue to provide regular reports on security of telecommunications/ICT to the Telecommunication Standardization Advisory Group (TSAG) on progress in evaluating existing and evolving new Recommendations;

9 that ITU‑T study groups continue to liaise with standards development organizations and other bodies active in this field, such as ISO/IEC JTC1, the Organisation for Economic Co‑operation and Development (OECD), the Asia‑Pacific Economic Cooperation Telecommunication and Information Working Group (APEC‑TEL) and the Internet Engineering Task Force (IETF);

10 that Study Group 17 continue its work on the issues raised in Resolution 130 (Rev. Guadalajara, 2010), and on the ITU‑T X-series of Recommendations, including Supplements as appropriate,

instructs the Director of the Telecommunication Standardization Bureau

1 to prepare, in building upon the information base associated with the "ICT Security Standards Roadmap" and the ITU‑D efforts on cybersecurity, and with the assistance of other relevant organizations, an inventory of national, regional and international initiatives and activities to promote, to the maximum extent possible, the worldwide harmonization of strategies and approaches in this critically important area;

2 to report annually to the ITU Council, as specified in Resolution 130 (Guadalajara, 2010), on progress achieved in the actions outlined above;

3 to continue to recognize the role played by other organizations with experience and expertise in the area of security standards, and coordinate with those organizations as appropriate,

further instructs the Director of the Telecommunication Standardization Bureau

1 to continue to follow up WSIS activities on building confidence and security in the use of ICTs, in cooperation with relevant stakeholders, as a way to share information on national, regional and international and non-discriminatory cybersecurity-related initiatives globally;

2 to cooperate with BDT in relation to any item concerning cybersecurity in accordance with Resolution 45 (Rev. Hyderabad, 2010),

3 to continue to cooperate with the Secretary-General's Global Cybersecurity Agenda (CGA) and with IMPACT, FIRST and other global or regional cybersecurity projects, as appropriate, to develop relationships and partnerships with various regional and international cybersecurity-related organizations and initiatives, as appropriate, and to invite all Member States, particularly developing countries, to take part in these activities and to coordinate and cooperate with these different activities;

4 taking into account Resolution 130 (Rev. Guadalajara 2010), to work collaboratively with the other Directors of the Bureaux to support the Secretary-General in preparing a document relating to a possible memorandum of understanding (MoU) (according to Resolution 45 (Rev. Hyderabad, 2010)) among interested Member States to strengthen cybersecurity and combat cyberthreats in order to protect developing countries and any country interested in acceding to this possible MoU,

invites Member States, Sector Members, Associates and academia, as appropriate

to cooperate and participate actively in the implementation of this resolution and the associated actions.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [50-01](#Item50_01) | SG experts to identify related work on cybersecurity being done outside ITU-T and, if appropriate, invite participation in the work of ITU-T. | Ongoing | √ |  |
| [50-02](#Item50_02) | SGs to evaluate Recommendations for robustness and potential for malicious exploitation, and document results, e.g., in Implementers Guides, Guidelines, Manuals, … | Ongoing | √ |  |
| [50-03](#Item50_03) | SGs to report regularly on security to TSAG on their Recommendations evaluation progress | Ongoing |  |  |
| [50-04](#Item50_04) | SGs to develop new Recommendations for emerging security issues with new services and applications (e.g. cloud computing, smart grid, ITS) | Ongoing | √ |  |
| [50-05](#Item50_05) | SG17 to continue develop and improve terms and definitions related to building confidence and security, including the term cybersecurity | Ongoing | √ |  |
| [50-06](#Item50_06) | SG17 to develop standards/guidelines against cyber-attacks and facilitate tracing the sourcing of attack, and promote global, consistent and interoperable process for sharing incident-response related information | Ongoing | √ |  |
| [50-07](#Item50_07) | SG17 to continue its work on the issues raised in Resolution 130 (Rev. Guadalajara, 2010), and on the ITU T X-series of Recs., including Supplements; to evaluate need for additional material or revision of existing material in the Security Roadmap, Manual and Compendium.  | Ongoing | √ |  |
| [50-08](#Item50_08) | Director to prepare an inventory of initiatives and activities to promote harmonization of strategies and approaches in cybersecurity | Ongoing | √ |  |
| [50-09](#Item50_09) | Director to report to Council on actions taken under Resolution 50 | Annual,Council 2013 | √ |  |
| [50-10](#Item50_10) | Director to continue contributing to WSIS security activities | Ongoing | √ |  |
| [50-11](#Item50_11) | Director to cooperate with GCA, IMPACT, FIRST etc to develop relationship/partnership for ITU membership, esp. developing countries | Ongoing | √ |  |
| [50-12](#Item50_12) | Director to collaborate with other ITU elected officials to support Sec-Gen in preparing a possible MoU according to WTDC Res 45 | Ongoing |  |  |

Action Item 50-01: SG17

Q4/17 “Cybersecurity” has the primary role on Resolution 50. Development of the ITU-T X.1500 CYBEX ensemble of techniques represents significant means for enhancing cybersecurity globally. The cybersecurity landscape is monitored and new groups and activities are identified and evaluated. Continuing liaisons exists with a broad array of organizations – in many cases, importing their technical platforms related to ITU-T X.1500.
This includes FIRST, OASIS, TCG, ETSI, CCDB, APWG, IETF, ENISA, and ISO/IEC. For some of these bodies, International Organization status and ITU-T A.4 qualification of forums and consortiums have been established and will continue to be pursued.

Action Item 50-02: SGs

SG17 provided guidelines and methodology to other study groups; e.g., ITU-T X.805.

Recommendations have been issued on information security management, risk management and security incident management, others are being developed, on how to best deal proactively with security vulnerabilities and threats.

Action Item 50-03: SGs

Action Item 50-04: SGs

Work is underway in Q8/17 and Q10/17 on cloud computing security and in Q6/17 on smart grid security and ITS security. Q11/17 has work underway on deployment of PKI in new areas, e.g. smart grid.

Action Item 50-05: SG17

SG17 initiated a call for contributions on this subject.

Action Item 50-06: SG17

Q4/17 has developed a number of Recommendations that facilitate global, consistent and interoperable process for sharing incident-response related information in X.1500 series: e.g., ITU-T X.1541, ITU-T X.1580 and ITU-T X.1581.

Action Item 50-07: SG17

ICT Security Standards Roadmap and Security Compendium (including a list of ITU-T approved security definitions) are continuously updated.

The fifth issue of the Security Manual has been published.

**Action Item 50-08: TSB**

SG17 communicates continually with TSB Director on its cybersecurity initiatives.

Regular coordination meetings are planned between TSB and BDT.

Action Item 50-09: TSB

The document to Council on “ITU activities on strengthening the role of ITU in building confidence and security in the use of ICTs” ([C13/23](http://www.itu.int/md/S13-CL-C-0023/en)) contains updates on ITU-T’s security work.

SG17 communicates with TSB Director on its actions regarding Resolution 50.

Action Item 50-10: TSB

Regular updates have been provided to the Council WG WSIS.

Action Item 50-11: TSB

IMPACT participated in the Expert Dialogue on aircraft flight tracking, 26-27 May 2014, Malaysia.

Action Item 50-12: TSB

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# Resolution 52 - Countering and combating spam

**Resolution 52**

resolves to instruct the relevant study groups

1 to continue to support ongoing work, in particular in Study Group 17, related to countering spam (e.g. e-mail) and to accelerate their work on spam in order to address existing and future threats within the remit and expertise of ITU‑T, as appropriate;

2 to continue collaboration with the relevant organizations (e.g. the Internet Engineering Task Force (IETF)), in order to continue developing, as a matter of urgency, technical Recommendations with a view to exchanging best practices and disseminating information through joint workshops, training sessions, etc.,

further instructs ITU-T Study Group 17

to report regularly to the Telecommunication Standardization Advisory Group on progress under this resolution,

instructs the Director of the Telecommunication Standardization Bureau

1 to provide all necessary assistance with a view to expediting such efforts;

2 to initiate a study – including sending a questionnaire to the ITU membership –indicating the volume, types (e.g. e-mail spam, SMS spam, spam in IP-based multimedia applications) and features (e.g. different major routes and sources) of spam traffic, in order to help Member States and relevant operating agencies identify such routes, sources and volumes and estimate the amount of investment in facilities and other technical means to counter and combat such spam, taking into account work that has already been carried out;

3 to continue to cooperate with the Secretary-General's initiative on cybersecurity and with the Telecommunication Development Bureau in relation to any item concerning cybersecurity under Resolution 45 (Rev. Hyderabad, 2010) of the World Telecommunication Development Conference, and to ensure coordination among these different activities,

invites Member States, Sector Members and Associates

to contribute to this work,

further invites Member States

to take appropriate steps to ensure that appropriate and effective measures are taken within their national and legal frameworks to combat spam and its propagation.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [52-01](#Item52_01) | SGs, particular SG17, to accelerate their work on spam | Ongoing | √ |  |
| [52-02](#Item52_02) | SGs to collaborate with other relevant organizations to develop Recommendations with a view to exchanging best practices; participate in workshops, training sessions, etc. | Ongoing | √ |  |
| [52-03](#Item52_03) | SG17 to report on progress of Resolution 52 to each meeting of TSAG | Ongoing | √ |  |
| [52-04](#Item52_04) | SG17 to initiate a study to survey ITU membership on spam | April 2013 | √ |  |

Action Item 52-01: SG17

SG17 has approved 7 Recommendations and 4 Supplements. Two additional texts are in development in Q5/17 “Countering spam by technical means“.

1. The structure of countering spam by technical measures has been established, including 5 levels: technical strategy level, guideline level, framework level, technology level and supplement level. In this structure, branches of this structure are mainly based on the type of spam: e-mail spam, multimedia spam, messaging spam, etc.

2. The important technical work carried out to date in Study Group 17 and in particular Recommendations ITU-T X.1231 (Technical strategies for countering spam), X.1240 (Technologies involved in countering e-mail spam), X.1241 (Technological framework for countering e-mail spam), X.1242 (Short message service (SMS) spam filtering system based on user-specified rules), X.1243 (Interactive gateway system for countering spam), X.1244 (Overall aspects of countering spam in IP-based multimedia applications), X.1245 (Framework for countering spam in IP-based multimedia applications), and X.1246 (Real-time blocking list (RBL)-based framework for countering VoIP spam).

3. X.tfcmm (Technical framework for countering mobile messaging spam), X.ticvs (Technologies involved in countering voice spam in telecommunication organizations) and relevant practices are undergoing in Q5/17.

4. To continue collaboration with the relevant organizations, e.g., 3GPP, in order to find effective and efficient measures to countering potential spam.

Action Item 52-02: SGs

Question 5/17, Countering spam by technical means, has exchanged best practices with ITU-T SG2, SG13, SG16, ITU-D Q22/1, MAAWG and 3GPP SA3. Working liaison relationship has been established with those bodies. In addition, Q5/17 has reviewed all the relevant documents from the above bodies and from OECD, ENISA, and IETF.

• With SG2, the scope of the correspondence mainly covers the scope and characteristics of spam;

• With SG13 and SG16, the correspondence mainly covered work on Recommendation X.1245, *Overall aspects of countering spam in IP-based multimedia applications*,

• With 3GPP SA3, the correspondence mainly covers X.Suppl. 12, *Overall aspects of countering mobile messaging spam*,

• With ITU-D Q22/1, correspondence addresses mainly X Suppl. 6: ITU-T X.1240 series – *Supplement on countering spam and associated threats*.

Q5/17 presented ITU-T Recommendations and activities on countering spam at the [ITU Workshop on "Countering and Combating Spam"](http://www.itu.int/en/ITU-T/Workshops-and-Seminars/spam/201307/Pages/default.aspx), Durban, 8 July 2013 and the [Joint Internet Society, CITEL and ITU workshop on Combating SPAM,](http://www.itu.int/en/ITU-T/Workshops-and-Seminars/spam/201310/Pages/default.aspx)  ​Mendoza, Argentina​, 7 October 2013.

Action Item 52-03: SG17

SG17 submits a lead study group report on telecommunication security to each TSAG meeting.

Action Item 52-04: SG17

Q5/17 completed the draft of survey questionnaire and sent it to the TSB Director for finalization. This survey questionnaire will be sent to all member states, sector members and other relevant organizations for gathering information, future standardization and best practices.

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# Resolution 54 - Creation of, and assistance to, regional groups

**Resolution 54**

resolves

1 to support, on a case-by-case basis, the coordinated creation of regional groups of ITU‑T study groups, and to encourage cooperation and collaboration of these groups with regional standardization entities;

2 to invite the Council to consider providing support for the regional groups as appropriate,

invites the regions and their Member States

1 to pursue the creation of regional groups of parent ITU-T study groups in their respective regions in accordance with *resolves* 1 of this resolution, and to support their meetings and activities, as appropriate, in coordination with TSB;

2 to develop draft terms of reference and working methods for these regional groups, which are to be approved by the parent study group;

3 to create regional standardization bodies, as appropriate, and encourage joint and coordinated meetings of such bodies with the regional groups of ITU-T study groups in their respective regions, so that these standardization bodies act as an umbrella for such regional group meetings,

invites the regional groups thus created

1 to disseminate information about telecommunication standardization and encourage the involvement of developing countries in standardization activities in their regions, and to submit written contributions to the parent study group reflecting the priorities of their respective regions;

2 to cooperate closely with the relevant respective regional organizations,

instructs study groups and the Telecommunication Standardization Advisory Group

to coordinate joint meetings of the regional groups of ITU-T study groups,

instructs the Director of the Telecommunication Standardization Bureau, in collaboration with the Director of the Telecommunication Development Bureau, within the allocated or contributed resources that are available

1 to provide all necessary support for creating and ensuring the smooth functioning of the regional groups;

2 to consider holding, whenever possible, workshops concurrently with meetings of the ITU-T regional groups;

3 to take all necessary measures to facilitate the organization of meetings and workshops of the regional groups,

calls upon the Director of the Telecommunication Standardization Bureau

to cooperate with the Director of the Telecommunication Development Bureau in order to:

i) continue to provide specific assistance to the current regional groups of Study Group 3 as well as other regional groups;

ii) encourage the continuing development of computerized application tools related to their cost methodology by the members of the regional groups of Study Group 3;

iii) take appropriate steps to facilitate meetings of the current and future regional groups of Study Group 3 and promote the necessary synergies between the two Sectors,

further invites the regional groups thus created

to cooperate closely with the relevant respective regional organizations, and to report on their work in their regions.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [54-01](#Item54_01) | TSB to support coordinated creation of regional groups of ITU-T study groups  | Ongoing | √ |  |
| [54-02](#Item54_01)  | TSB Dir to invite Council to consider providing support for regional groups as appropriate | Council 2013 |  | √ |
| [54-03](#Item54_03) ([44-25](#Item44_25)) | TSB to encourage the creation of regional standardization bodies as appropriate, and joint and coordinated meetings of such bodies with regional groups (see also [Resolution 44](#Resolution_44)).  | Ongoing | √ |  |
| [54-04](#Item54_04)([44-14](#Item44_14)) | SGs and TSAG to coordinate joint meetings of regional groups  | Ongoing | √ |  |
| [54-05](#Item54_05) ([44-21](#Item44_21)) | TSB to provide all necessary support for creation, organization of meeting and workshop of the regional groups to ensure their smooth functioning (see also [Resolution 44](#Resolution_44)).  | Ongoing | √ |  |
| [54-06](#Item54_06) ([44-24](#Item44_24)) | TSB to conduct BSG workshops and seminars for developing countries, concurrently with meetings of ITU-T regional groups if possible, in coordination/collaboration with ITU-D (see also [Resolution 44](#Resolution_44)). | Ongoing | √ |  |
| [54-07](#Item54_07) | TSB Dir to cooperate with BDT Dir to continue provide specific assistance to ITU-T SG3 regional groups, encourage the continuing development of computerized application tools  | Ongoing | √ |  |

Action Item 54-01: TSB, Study Groups

The following regional groups have met since WTSA-12:

ITU-T Study Group 3

* Regional Group for Africa (4-7 February 2013, Cairo, Egypt)
* Regional Group for Africa (20-21 February 2014, Congo, Brazzaville)
* Regional Group for Latin America and the Caribbean (19-22 March 2013, Mexico City, Mexico)
* Regional group for Latin America and the Caribbean (13-14 March 2014, San Jose, Costa Rica)
* Regional Group for Asia and Oceania (8-10 April 2013, Tokyo, Japan)
* Regional Group for the Arab States (29-30 October 2014) (planned)

ITU-T Study Group 5

* Regional Group for the Africa Region met during the SG5 meeting (Geneva, 29 January - 07 February 2013) and prepared the next SG5 RG-AFR meeting in July 2013 in Ouagadougou, Burkina Faso.

ITU-T Study Group 12

* Regional Group on QoS for the Africa region met during the SG12 meeting (Geneva, 19 - 28 March 2013) and prepared the next SG12 RG-AFR meeting in July 2013 in Ouagadougou, Burkina Faso.

ITU-T Study Group 13

* Regional Group for Africa (10 - 11 September 2013, Algiers, Algeria)
* Regional Group for Africa (29 – 30 April 2014, Tunis, Tunisia)
* Electronic activity of the SG13 Regional Group for Africa (21 May 2014)
* Electronic activity of the SG13 Regional Group for Africa (4 June 2014)

Action Item 54-02: TSB

In his WTSA-12 report to Council 2013 ([C13/22](http://www.itu.int/md/S13-CL-C-0022/en)), the TSB Director invites Council to consider providing support for the regional groups as appropriate.

Action Item 54-03: TSB

See Action Item [44-25](#Item44_25).

Action Item 54-04: TSAG and SGs

See Action Item [44-14](#Item44_14).

Action Item 54-05: TSB

See Action Item [44-21](#Item44_21).

Action Item 54-06: TSB

See Action Item [44-24](#Item44_24).

Action Item 54-07: TSB

SG3 Regional Group meetings have all been organized during the study period in cooperation with BDT and its forums on regional and economic issues. See 54-01 for dates of meetings in 2013 and 2014.

See [54-01](#Item52_01) and the ITU-T SG3 home page at <http://itu.int/en/ITU-T/studygroups/2013-2016/03> for an updated status.

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# Resolution 55 - Mainstreaming a gender perspective in ITU Telecommunication Standardization Sector activities

**Resolution 55**

resolves

1 that ITU‑T should continue to encourage the inclusion of a gender perspective, including the use of gender-neutral language, in the work of all ITU‑T activities and groups, including TSAG and the ITU‑T study groups;

2 that inclusion of the gender perspective should be ensured in the implementation of all relevant outcomes of this assembly;

3 that a high priority be accorded to gender mainstreaming in the management, staffing and operation of ITU-T;

4 to invite TSAG, the Radiocommunication Advisory Group (RAG) and the Telecommunication Development Advisory Group (TDAG) to assist in the identification of subjects and mechanisms to foster the mainstreaming of a gender perspective, as well as matters of mutual interest in that regard,

instructs the Director of the Telecommunication Standardization Bureau

1 to undertake the integration of a gender perspective in the work of TSB in accordance with the principles already applied in ITU;

2 to organize gender-mainstreaming training for TSB staff;

3 to encourage Member States and Sector Members to contribute to meeting gender-equality objectives through the equal participation of qualified women and men in standardization activities as well as in leadership positions;

4 to encourage the participation, contribution and leadership of women in all aspects of ITU‑T activities;

5 to conduct research to identify women in standardization, with a goal of creating an ITU‑T Women in Standardization Group;

6 to conduct an annual review on progress made in the Sector in advancing gender mainstreaming, and to share findings with TSAG and the next WTSA,

invites the Secretary-General

1 to comply with the reporting obligations, as required by the UNSWAP, on the ITU-T activities aimed at promoting gender equality and the empowerment of women;

2 to encourage ITU staff to take account of the gender-neutral guidelines of the ITU English Language Style Guide and to avoid, as much as possible, the use of gender-specific terms,

invites Member States and Sector Members

1 to submit candidatures to chairman/vice-chairman posts to support the active involvement of women experts in standardization groups and activities, and in their own administrations and delegations;

2 to actively support and participate in the work of TSB, to nominate experts for the ITU‑T Women in Standardization Group and to promote the use of ICTs for the economic and social empowerment of women and girls;

3 to encourage ICT education for girls and women, and prepare them for a career in ICT standardization.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [55-01](#Item55_01) | TSAG, RAG and TDAG to assist in identifying subjects and mechanisms to foster mainstreaming of a gender perspective  | Ongoing | √ |  |
| [55-02](#Item55_02) | TSB Dir to organize gender-mainstreaming training for TSB staff | Ongoing | √ |  |
| [55-03](#Item55_03) | TSB Dir to encourage MS and SM to include qualified women and men in their delegations and administrations, and solicit candidature of women experts for chairman/VC posts (see also [Resolution 35](#Resolution_35)) | Ongoing | √ |  |
| [55-04](#Item55_04) | TSB Dir to conduct research to identify women in standardization, to create an ITU-T Women in Standardization Group | Ongoing | √ |  |
| [55-05](#Item55_05) | TSB Dir to conduct an annual review on progress made in ITU-T in advancing gender mainstreaming, and to share findings with TSAG and the next WTSA | Ongoing | √ |  |
| [55-06](#Item55_06) | Sec-Gen to comply with the UNSWAP reporting obligations on the ITU-T activities aimed at promoting gender equality and the empowerment of women, and encourage ITU staff to avoid as much as possible gender-specific language | Ongoing | √ |  |

Action Item 55-01: TSAG

The Gender Task Force of the ITU Secretariat is working on ways to further foster gender equality in ITU and to collaborate with all ITU’s stakeholders to incorporate a gender perspective in all of ITU’s work.

Action Item 55-02: TSB

TSB continues to collaborate with the other Bureaux and the General Secretariat to build a framework to move the gender agenda forward, under the umbrella of the ITU Gender Taskforce.

A gender mainstreaming training, facilitated by the International Labour Organization (ILO), has been delivered to TSB staff along with colleagues from the other sectors and the General Secretariat on 6 May 2013. Subsequent to the training, the participants will engage in incorporating a gender perspective in their work, including adopting a gender sensitive language in all documents and encouraging more and active participation by women in ITU programmes.

Action Item 55-03: TSB, ITU-T Membership

The TSB Director continues to encourage Member States and Sector Members to support the active involvement of women experts in standardization groups and activities. The Focus Group on Smart Sustainable Cities appointed Ms Sylvia Guzman as Chair at its 1st meeting on 8 May 2013.

The opportunity to open new ICT career opportunities for women in the development of smart sustainable cities was specifically addressed at the Eighth ITU Symposium on ICTs, the Environment and Climate Change (Turin, Italy, 6-7 May 2013) in a presentation by Ms Nidhi Tandon, during the session on Integrated ICT solutions for smart sustainable cities and empowered citizens.

Action Item 55-04: TSB

A number of women in leadership positions in the ITU-T environment have been identified and interviewed. TSB is currently collaboration with key partners to create Women in Standardization by September 2014.

Action Item 55-05: TSB

In 2013, two women were hired in the professional grade category and one was promoted from P3 to P4.

As of mid-2014, 55% of all TSB staff are female. The number of female in the professional category has more than tripled over the last eight years; from three in 2006 to 13 in 2014, i.e. 41% of the staff in this category.

A gender perspective continues to be included in ITU-T’s work including in HR matters. All vacancy notices include the note: "Applications from women are encouraged”. Staff members are continually encouraged to incorporate a gender perspective, including adopting a gender sensitive language in all documents and encouraging more and active participation of women in ITU-T activities.

With regard to meeting participation, the level of women attending ITU-T meeting has remained more or less the same over the last 7 years. In 2013, 14% of all participants in ITU-T meetings were women. The percentage was slightly higher in 2012, at 18%.

Action Item 55-06: Secretary-General of ITU

In January 2014, ITU conducted its first UNSWAP reporting on activities undertaken to gender equality and the empowerment of women. The upcoming reporting in January 2015 is expected to include detailed information for each ITU’s Sector.

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# Resolution 57 - Strengthening coordination and cooperation among the three ITU Sectors on matters of mutual interest

**Resolution 57**

resolves

1 to invite the Radiocommunication (RAG), Telecommunication Standardization (TSAG) and Telecommunication Development (TDAG) advisory groups to assist in the identification of subjects common to the three Sectors and mechanisms to enhance cooperation and collaboration in all Sectors on matters of mutual interest;

2 to invite the Directors of the Radiocommunication (BR), Telecommunication Standardization (TSB) and Telecommunication Development (BDT) Bureaux to collaborate and report to the respective Sector advisory bodies on options for improving cooperation at the secretariat level to ensure that close coordination is maximized.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [57-01](#Item57_01) | Each TSAG meeting to identify if there are new subjects potentially of common interest with the other Sectors and obtain a response on the other Sectors' interest during that same TSAG meeting | Ongoing | √ |  |
| [57-02](#Item57_02) | Regular meetings of the management of the three Bureaux will discuss coordination and cooperation improvements at the Secretariat level and Director of TSB to report results to TSAG | Ongoing |  |  |
| [57-03](#Item57_03) | TSB to discuss with other Bureaux joint meeting of SG Chairmen of ITU-T, ITU-R and ITU-D | Ongoing |  |  |

Action Item 57-01: TSAG

Review performed on a regular basis based on information received.

Action Item 57-02: TSB

Action Item 57-03: TSB

Now that WTDC 2014 has concluded and ITU-D Chairmen have been appointed, joint meetings of SG Chairmen across Sectors could be planned.

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# Resolution 58 - Encourage the creation of national computer incident response teams, particularly for developing countries

**Resolution 58**

resolves

to support the creation of national CIRTs in Member States where CIRTs are needed and are currently absent,

instructs the Director of the Telecommunication Standardization Bureau, in collaboration with the Director of the Telecommunication Development Bureau

1 to identify best practices to establish CIRTs;

2 to identify where CIRTs are needed;

3 to collaborate with international experts and bodies to establish national CIRTs;

4 to provide support, as appropriate, within existing budgetary resources;

5 to facilitate collaboration between national CIRTs, such as capacity building and exchange of information, within an appropriate framework,

invites the Member States

1 to consider the creation of a national CIRT as a high priority;

2 to collaborate with other Member States and with Sector Members,

invites Member States and Sector Members

to cooperate closely with ITU-T and ITU‑D in this regard.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [58-01](#Item58_01) | Director, in collaboration with BDT Director and SG17, to identify best practices to establish CIRTs and identify where CIRTs are needed | Ongoing | √ |  |
| [58-02](#Item58_02) | Director, in collaboration with BDT Director, to facilitate capacity building and information exchange between national CIRTs | Ongoing | √ |  |
| [58-03](#Item58_03) | Q3/17 to continue study the issue of CIRTs creation and possibility to provide a guideline in line with X.1056 (Security incident management for telecommunication organizations), in collaboration with Q4/17 and other relevant Questions and Recommendations (e.g., ITU-T E.409) | Ongoing | √ |  |
| [58-04](#Item58_04) | Q4/17 to continue work in its correspondence group established for this item | Ongoing | √ |  |

Action Items 58-01, 58-02: SG17

Q3/17 “Telecommunications information security management” and Q4/17 “Cybersecurity” prepared a global directory of cybersecurity organizations, including CIRTs, which is currently hosted and maintained by the TSB on its website at: http://www.itu.int/ITU-T/studygroups/com17/nfvo/index.html. This fosters global collaboration among organizations.
Q3/17 and Q4/17 joint meeting agreed to enhance collaboration among Q3/17 and Q4/17 and ITU-D Q22/1, e.g., sharing Directory with ITU-D and producing guidelines with collaboration among Questions.

FIRST (Forum for Incident Response and Security Teams), representing more than 200 CIRT teams around the world, is actively involved in the work of Q4/17 .

Action Item 58-03: SG17

Q3/17 started work in collaboration with Q4/17 and Q22/ITU-D and FIRST to study CIRT creation and envision developing a guideline in line with X.1056 for the purpose of providing useful technical information to developing countries.
Question 2/17 “Security architecture and framework” has finished studying X.Suppl.15, Supplement on guidance for creating national IP-based public network security centre for developing countries.

Action Item 58-04: SG17

The Cybersecurity Information Exchange (CYBEX) initiative provides a suite of techniques to facilitate CIRTs information exchange worldwide (See X.1500).

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# Resolution 59 - Enhancing participation of telecommunication operators from developing countries

**Resolution 59**

resolves to invite the Director of the Telecommunication Standardization Bureau

1 to encourage Sector Members from the developed countries to promote the participation in ITU‑T activities of their subsidiaries installed in developing countries;

2 to develop mechanisms to support the effective participation by telecommunication operators from developing countries in standardization activities;

3 to raise the awareness of the developing countries regarding the benefits of participation and of becoming an ITU-T Sector Member and/or Associate,

invites Member States

to encourage their Sector Members to participate in ITU‑T activities.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [59-01](#Item59_01) | TSB to raise awareness of developing countries regarding the benefits of ITU-T membership  | Ongoing | √ |  |
| [59-02](#Item59_02) | Director to encourage SMs from developing countries to promote their subsidiaries to participate in ITU-T activities, and to contribute to the CTO meetings  | Ongoing | √ |  |
| [59-03](#Item59_03) | Director to grant fellowships for network operators from developing countries | Ongoing | √ |  |

Action Item 59-01: TSB

Action Item 59-02: TSB

The involvement of Sector members from developing countries in CTO meetings is being actively promoted.

Action Item 59-03: TSB

Fellowships are being been made available to attend ITU-T meetings, including study group meetings and regional study group meetings, workshops and seminars. These are allocated according to the following criteria: available TSB budget; contributions by the applicant to the meeting; equitable distribution among countries; and gender balance. Priority is being given to applicants from LDCs. The current policy is to allocate partial fellowships only.

All Collective Letters issued include information on fellowships and the necessary application form. TSB provides the fellowships in coordination with BDT.

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# Resolution 60 - Responding to the challenges of the evolution of the identification/numbering system and its convergence with IP-based systems / networks

**Resolution 60**

resolves to instruct ITU-T Study Group 2, within the mandate of ITU‑T

1 to continue studying, in liaison with the other relevant study groups, the necessary requirements for the structure and maintenance of telecommunication identification/numbering resources in relation to the deployment of IP-based networks and the transition to NGN and FN;

2 to ensure the development of the administrative requirements for identification/numbering resource management systems in NGN and FN;

3 to continue developing guidelines, as well as a framework, for the evolution of the international telecommunication numbering system and its convergence with IP-based systems, in coordination with related study groups and associated regional groups, so that a basis for any new application can be provided,

instructs relevant study groups, and in particular ITU-T Study Group 13

to support the work of Study Group 2, to ensure that such applications are based on appropriate guidelines, as well as a framework, for the evolution of the international telecommunication numbering/identification system, and to help investigate their impact on the numbering/identification system,

instructs the Director of the Telecommunication Standardization Bureau

to take appropriate action to facilitate the foregoing work regarding the evolution of the numbering/identification system or its converged applications,

invites Member States and Sector Members

1 to contribute to these activities, taking into consideration their national concerns and experiences;

2 to participate in and to contribute to regional groups discussing the issue and to promote the participation of developing countries in those discussions.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [60-01](#Item60_01) | SG2, supported particularly by SG13, to study necessary requirements and related resource management systems regarding telecommunication identification/numbering resources in relation to the deployment of IP-based networks and the transition to NGN and FN, and to develop guidelines for evolution of the international telecommunication numbering system and its convergence with IP-based systems | Ongoing | √ |  |

Action Item 60-01: SG2

There was a draft document named “the future of numbering” which studies and analyses the existing numbering, naming, addressing and identification plans and identifies gaps, interworking needs and mechanisms between these plans. The latest version of this document is contained in TD 156/WP1 (2009-2012).

Service Provider Network Identifier (SPN) issue was discussed in the ITU-T SG2 meeting (22-31 January 2013) and the basic text for the draft Recommendation for the management and assignment of Global SPNs is contained in TD 73/WP1 (2009-2012) and TD 75Rev1/WP1 (2009-2012).

The revised PDTR text of ISO/IEC 29181-2, Future Network: Problem Statement and Requirements – Part 2: Naming and Addressing was reviewed at the SG2 meeting (17-26 September 2013) and a response was sent to ISO/IEC JTC1/SC6/WG7.

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# Resolution 61 - Countering and combating mmisappropriation and misuse of international telecommunication numbering resources

**Resolution 61**

resolves to invite Member States

1 to ensure that ITU-T E.164 numbering resources are used only by the assignees and only for the purposes for which they were assigned, and that unassigned resources are not used;

2 to endeavour to ensure that operating agencies authorized by Member States release routing information to duly authorized agencies in cases of fraud, in accordance with national law;

3 to encourage administrations and national regulators to collaborate and share information on fraudulent activities related to misappropriation and misuse of international numbering resources, and to collaborate to counter and combat such activities;

4 to encourage all international telecommunication operators to enhance the effectiveness of ITU's role and to give effect to its Recommendations, particularly those of ITU‑T Study Group 2, in order to promote a new and more effective basis to counter and combat fraudulent activities due to number misappropriation and misuse, which would help limit the negative effects of these fraudulent activities and the blocking of international calls;

5 to encourage administrations and international telecommunication operators to implement ITU‑T Recommendations in order to mitigate the adverse effects of fraudulent number misappropriation and misuse, including blocking of calls to certain countries,

resolves further

1 that administrations and operating agencies authorized by Member States take, to the furthest extent practicable, all reasonable measures to provide information necessary to address issues related to number misappropriation and misuse;

2 that administrations and operating agencies authorized by Member States should take note of and consider, to the furthest extent practicable, the "Suggested guidelines for regulators, administrations and operating agencies authorized by Member States for dealing with number misappropriation", in accordance with the attachment to this resolution;

3 that Member States and national regulators should take note of instances of activities related to the misuse of international numbering resources, in accordance with Recommendation ITU‑T E.164, through relevant ITU‑T resources (e.g. the ITU-T Operational Bulletin);

4 to request Study Group 2 to study all aspects and forms of misappropriation and misuse of numbering resources, in particular of international country codes, with a view to amending Recommendation ITU‑T E.156 and its supplements and guidelines to support countering and combating these activities;

5 to request ITU-T Study Group 3, in collaboration with Study Group 2, to develop definitions for inappropriate activities, including inappropriate activities causing loss of revenue, related to misappropriation and misuse of international numbering resources specified in the relevant ITU-T Recommendations, and to continue to study such matters;

6 to request Study Group 3 to study the economic effects resulting from misappropriation and misuse of numbering resources, including call blocking.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [61-01](#Item61_01) | SG2 to study all aspects and forms of misappropriation and misuse of numbering resources, particular international country codes, with a view to amending Recommendation ITU-T E.156 and its supplements and guidelines | Ongoing | √ |  |
| [61-02](#Item61_02) | SG3 to develop definitions for inappropriate activities related to misappropriation and misuse of international numbering resources specified in ITU-T Recommendations | Ongoing | √ |  |
| [61-03](#Item61_03) | SG3 to study the economic effects of misappropriation and misuse of numbering resources, including call blocking | Ongoing | √ |  |

Action Item 61-01: SG2

Summary of replies to the Circular 296 (2009-2012) on countering misuse was discussed in the ITU-T Study Group 2 meeting (22-31 January, 2013). WTSA Resolution 61 was noted as providing new inputs to this work on misuse. Given the scale of the problem, the meeting concurred that the procedure defined in E.156 could be improved or complemented by other procedures to prevent such practice. And future work on this aspect was agreed.

It was agreed in principle to send a circular on number misuse and misappropriation at the SG2 meeting (17-26 September 2013).

Action Item 61-02: SG3

A Correspondence Group to study the economic Impact of call-back, refiling and inappropriate hubbing and other forms of alternative calling procedures, as well as origin non-identification or spoofing, was set up at the May meeting of Study Group 3.

Action Item 61-03: SG3

Work in the regions on defining, inter alia, inappropriate hubbing is ongoing. A Correspondence Group to study the economic Impact of call-back, refiling and inappropriate hubbing and other forms of alternative calling procedures, as well as origin non-identification or spoofing, was set up at the May meeting of Study Group 3.

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# Resolution 62 - Dispute settlement

**Resolution 62**

resolves to instruct ITU-T Study Group 3

1 to expedite its work on international connectivity, in order to facilitate the implementation of relevant resolutions;

2 to collect data with respect to the implementation and practical effects of the implementation of relevant resolutions and ITU-T D-series Recommendations,

invites Member States

1 to encourage each party to include in a negotiation or agreement related to, or arising out of, international connectivity matters a dispute settlement clause in such agreements;

2 to encourage all operating agencies domiciled within their territories to implement relevant ITU‑T Recommendations;

3 to contribute to ITU‑T's further work in the areas mentioned in this resolution,

instructs the Director of the Telecommunication Standardization Bureau

1 to report annually to the ITU Council with respect to the implementation of this resolution;

2 to provide all necessary support, within the existing budget, to Study Group 3 for its further work on this matter.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [62-01](#Item62_01) | SG3 to collect data with respect to implementation and practical effects of implementation of relevant resolutions and E-series Recommendations.  | Ongoing | √ |  |
| [62-02](#Item62_02) | SG3 to decide if an additional questionnaire is required at its 2nd meeting in 2013 | May 2014 |  |  |
| [62-03](#Item62_03) | Director to prepare report to Council annually | Ongoing, 3 months before Council |  |  |

Action Item 62-01: SG3

The rapporteur on dispute resolution is moving work forward and has been allocated to Working Party 2/3.

Action Item 62-02: SG3

The Rapporteur on dispute resolution will be moving forward on work on a new questionnaire on D-series recommendations relating to dispute settlement.

Action Item 62-03: TSB

In the ITU Activity report to Council 2013 ([C13/35](http://www.itu.int/md/S13-CL-C-0035/en)), the TSB Director reports that at its meeting in September 2012, ITU-T SG3 agreed to progress four Contributions from the Global Settlements Carrier Group (GSC) Group as Supplements: Credit Management Guidelines; Day Sales Outstanding (DSO) Management Guidelines; Prepayment Guidelines; Guidelines for Fraud Mitigation.

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# Resolution 64 - IP address allocation and facilitating the transition to and deployment of IPv6

**Resolution 64**

resolves

1 to instruct ITU-T Study Groups 2 and 3, each according to its mandate, to continue to study the allocation and economic aspects of IP addresses, and to monitor and evaluate the allocation of IPv4 addresses which may be still available, returned or unused, in the interests of the developing countries;

2 to instruct Study Groups 2 and 3, each according to its mandate, to study IPv6 address allocation and registration for interested members and, especially, developing countries;

3 to enhance the exchange of experiences and information with all stakeholders regarding the deployment of IPv6, with the aim of creating opportunities for collaborative efforts, and to ensure that feedback exists to enrich ITU efforts to support the transition to and deployment of IPv6,

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

1 to continue the ongoing activities between the Telecommunication Standardization Bureau (TSB) and BDT, taking into consideration the involvement of those partners willing to participate and bring their expertise to assist developing countries with IPv6 migration and deployment, and respond to their regional needs as identified by BDT, especially through capacity-building programmes through BDT Programmes 2 and 4;

2 to maintain the website which provides information about global activities related to IPv6, in order to facilitate awareness-raising and highlight the importance of IPv6 deployment for all ITU members and interested entities, as well as information related to training events being undertaken by ITU and relevant organizations (e.g. regional Internet registries (RIR), network operator groups and the Internet Society (ISOC));

3 to promote awareness of the importance of IPv6 deployment, to facilitate joint training activities, involving appropriate experts from the relevant entities, to provide information, including roadmaps and guidelines, and to assist in the establishment of IPv6 test-bed laboratories in developing countries in collaboration with appropriate relevant organizations,

further instructs the Director of the Telecommunication Standardization Bureau

to take appropriate action to facilitate the activities of Study Groups 2 and 3 in the area of IP addresses, and to report annually to the ITU Council and also to the 2016 world telecommunication standardization assembly, regarding the progress on action taken with respect to *resolves* above,

invites Member States and Sector Members

1 through the knowledge gained under *resolves* 3, to promote specific initiatives at the national level which foster interaction with governmental, private and academic entities and civil society for the purposes of the information exchange necessary for the deployment of IPv6 in their respective countries;

2 to ensure that newly deployed communication and computer equipment has IPv6 capability, as appropriate, taking into consideration a necessary period for the transition from IPv4 to IPv6,

invites Member States

to develop national policies to promote the technological update of systems, in order to ensure that the public services provided utilizing the IP protocol and the communications infrastructure and relevant applications of the Member States are compatible with IPv6.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [64-01](#Item64_01) | SG17 to continue study security aspects of IPv6 deployment  | Ongoing | √ |  |
| [64-02](#Item64_02) | SG2 (and SG3) to study allocation and economic aspects of IP addresses, and to monitor and evaluate IPv4 allocation for interested members and ,especially, developing countries  | Ongoing |  |  |
| [64-03](#Item64_03) | (SG2 and) SG3 to study allocation and economic aspects of IP addresses, and to monitor and evaluate IPv4 allocation for developing countries | Ongoing |  |  |
| [64-04](#Item64_04) | SG2 (and SG3) to study IPv6 address allocation and registration for interested members and, especially, developing countries  | Ongoing |  |  |
| [64-05](#Item64_05) | (SG2 and) SG3 to study IPv6 address allocation and registration for interested members and, especially, developing countries | Ongoing |  |  |
| [64-06](#Item64_06) | Director, in collaboration with BDT Director, to continue project to assist developing countries with IPv6 migration and deployment. | Ongoing | √ |  |
| [64-07](#Item64_07) | Director, in collaboration with BDT Director, to maintain the IPv6 portal website that provides information on global activities related to IPv6 and to training events of ITU and relevant orgs. | Ongoing | √ |  |
| [64-08](#Item64_08) | Director, in collaboration with BDT Director, to provide information, including roadmaps and guidelines to assist establishment of IPv6 test-bed labs in developing countries in collaboration with other orgs.  | Ongoing | √ |  |
| [64-09](#Item64_09) | Director to report to Council annually and to WTSA-16 | Ongoing | √ |  |

Action Item 64-01: SG17

Studies on security aspects of IPv6 deployment are being developed by a group of experts in SG17, in close collaboration with IETF and other SDOs. SG17 approved X.1037 on "Technical security guideline on deploying IPv6" and work is continuing on "Security management guideline for implementation of IPv6 environment in telecommunications organizations".

Action Item 64-02: SG2

An ad hoc group (AHG) of Study Group 2 on WTSA resolution 64 and an associated Correspondence Group have been created at the ITU-T SG2 (22-31 January 2013) in order to propose the methodology and work items needed to pursue the implementation of the parts of this resolution relevant to Study Group 2. Following the agreement on the continuation of the AHG and the associated correspondence group at ITU-T SG2 meeting held in September 2013, the AHG will meet during the next SG2 meeting (28 May – 6 June 2014).

Action Item 64-03: SG3

At its May 2014 meeting, Study Group 3 decided to move forward its work through the use of an agreed questionnaire to gather data to inform the members’ consideration of these issues.

Action Item 64-04: SG2

Action Item 64-05: SG3

See 64-03 above.

Action Item 64-06: TSB

Action Item 64-07: TSB

Action Item 64-08: TSB

An ITU IPv6 IPTV Global Testbed ([I3GT](http://www.itu.int/en/ITU-T/C-I/interop/I3GT/Pages/default.aspx)) initiated in Feb 2012 connects 10 sites worldwide using IPv6 by 16 May 2014 to test various aspects of ITU-T’s IPTV standards as well as to promote global deployment of IPv6.

Action Item 64-09: TSB

The TSB Director provides updates regarding IPv6 activities in the Council document on “ITU Internet activities: Resolutions 101, 102 and 133”.

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# Resolution 65 - Calling party number delivery, calling line identification and origin identification

**Resolution 65**

resolves

1 that international CLI, CPND and OI shall be provided based on the relevant ITU‑T Recommendations where technically possible;

2 that the delivered calling party numbers (CPN) shall at least, where technically possible, be prefixed with country codes so that a terminating country can identify in which country the calls are originated before they are delivered from an originating country to that terminating country;

3 that, in addition to the country code if delivered, the delivered CPN and CLI shall include the national destination code, or sufficient information to allow proper billing and accounting, for each call;

4 that the CPN, CLI and OI information shall be transmitted transparently by transit networks (including hubs),

instructs

1 ITU-T Study Group 2, ITU-T Study Group 3 and, where required, ITU-T Study Group 17 to further study the emerging issues of CPND, CLI and OI;

2 the study groups concerned to expedite work on Recommendations that would provide additional detail and guidance for the implementation of this resolution;

3 the Director of the TSB to report on the progress achieved by the study groups in implementing this resolution, which is intended to improve security and minimize fraud, and minimize technical harm as called for by Article 42 of the Constitution,

invites Member States

to contribute to this work and to cooperate in the implementation of this resolution.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [65-01](#Item65_01) | SG2, SG3 and SG17 to further study emerging issues of CPND, CLI and OI | Ongoing | √ |  |
| [65-02](#Item65_02) | SGs to expedite work on Recommendations that would provide additional detail and guidance for the implementation of this resolution | Ongoing | √ |  |
| [65-03](#Item65_03) | Director to report [to WTSA-16] on progress achieved by study groups in implementing Resolution 65 | Ongoing |  |  |

Action Item 65-01: SG2, SG3 and SG17

A conference call was held between the TSB, the SG2 and SG3 Chairmen on 30 April 2013. A TD sourced by the SG2 and SG3 Chairmen with the title of Areas for cooperation between SG2 and SG3 following WTSA-12 Resolutions has been agreed. Areas, breakdown of areas and modalities of cooperation for SG2 and SG3 as to WTSA-12 Resolutions 29, 61, 64 and 65 were proposed.

A contribution from KDDI was received in the SG2 meeting (17-26 September 2013) which proposed to start to study assignment rules of caller IDs relating voice services provided by application providers in order to prevent malicious issues caused by caller ID spoofing. Information on the creation of the IETF STIR Working Group (Secure Telephony Identity Revisited) was also noted by SG2 at that meeting.

An ITU workshop on Caller ID Spoofing will be held on 2 June 2014 during the SG2 meeting (28 May-6 June 2014).

CPND, CLI and OI fall within the scope of the alternative calling procedures joint rapporteur group between SG2 and SG3. A revised Terms of Reference was exchanged between the groups to facilitate the work going forward.

Action Item 65-02: SGs

A contribution from Ghana was received in the SG2 meeting (17-26 September 2013) which proposed to revise ITU-T Recommendation E.157 based on the updated WTSA-12 Resolution 65 and article 3.6 of the International Telecommunications Regulations (ITRs). In addition, the correspondence group on calling party number delivery, calling line identification and origination identification has restarted with the goal to clarify the issue and produce a problem statement (e.g. list the problematic use cases) including terminology and identify the potential impacts on E.157 or other potential deliverables pertinent to this work including the potential actions that could be taken to address these issues.

Action Item 65-03: TSB

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# Resolution 66 - Technology Watch in the Telecommunication Standardization Bureau

**Resolution 66**

resolves to instruct the Director of the Telecommunication Standardization Bureau

1 to ensure that Technology Watch activities are performed within the Bureau and to submit the findings for contributing to the development of relevant ITU-T Recommendations;

2 to continue to provide the output of Technology Watch, with relevant findings and analysis, as soon as possible to the relevant study groups and the Telecommunication Standardization Advisory Group for their consideration and action in accordance with their mandates;

3 to continue to publish the main results of Technology Watch as brief summaries,

encourages Member States and Sector Members

to contribute actively to Technology Watch, by submitting topic proposals and abstracts for future activities and by reviewing and discussing the Technology Watch findings.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [66-01](#Item66_01) | Director to continue the Technology Watch Function in TSB | Ongoing | √ |  |
| [66-02](#Item66_02) | TSB to provide outputs of TWF to SGs and TSAG for their consideration and action | Ongoing | √ |  |

Action Items 66-01 and 66-02: TSB

***Mobile money*** (May 2013, <http://www.itu.int/en/ITU-T/techwatch/Pages/mobile-money-standards.aspx>):

Mobile money refers to financial transactions and services that can be carried out using a mobile device such as a mobile phone or tablet. These services may or may not be linked directly to a bank account. Previously, recharging your mobile meant adding more airtime but now increasingly you will be able to add money to it, keep all your credit cards and loyalty coupons, access your bank account and use it like your ordinary wallet for payments. Innovations in mobile money could lead to a drastic change in the way people pay for goods and services in the near future.

[Part 1](http://www.itu.int/oth/T2301000020/en) of the report focuses on innovations in the mobile payments landscape, and in particular on NFC contactless mobile payments and the likely impact on future standardization activities. [The second part](http://www.itu.int/oth/T2301000020/en) highlights mobile money transfer and mobile banking services and their link to enabling financial inclusion. Mobile payments have grown as an alternative route of channelling economic activity, in particular in areas where banking infrastructure is poor or non-existent. Several issues described in the reports are yet to be addressed, including the interoperability aspect.

Mobile money and mobile payments are cross-cutting issues with implications for the work of various Study Groups, including SG2, SG13, SG16 and SG17.

***Location matters: Spatial standards for the Internet of Things*** (September 2013, <http://www.itu.int/en/ITU-T/techwatch/Pages/spatial-standards.aspx>):

Precise and accurate location (spatial) information enhance our association with our natural and built environments. Written by the secretariats of the Open Geospatial Consortium (OGC) and the TSB, this report looks at the global effort to weave different sources and formats of spatial information together so that they can be useful to people wherever they are and whatever they are doing.

Many emerging applications and services acquire, store, process, exchange, retrieve and transmit location information. This has significant implications in various areas of study, including security and privacy implications.

***Big data - big today, normal tomorrow*** (November 2013, <http://www.itu.int/en/ITU-T/techwatch/Pages/big-data-standards.aspx>):

Big data – a composite term describing emerging technological capabilities in solving complex tasks – has been hailed by industry analysts, business strategists and marketing pros as a new frontier for innovation, competition and productivity. This report looks at different examples and applications associated with the big data paradigm, identifies commonalities among them and highlights some of the technologies enabling the upsurge of big data. The report identifies challenges which need to be addressed to facilitate the adoption of big data solutions in a wider range of scenarios. Global standardization can contribute to addressing such challenges and will help companies enter new markets, reduce costs and increase efficiency. Big data standardization activities related to the ITU-T work programme, including the work initiated by Q17/13, are described in the final section of this report.

The report characterizes data protection, privacy and cybersecurity as key challenges associated with big data, and identifies issues related to aggregated datasets and anonymization as areas for further investigation and standardization.

The recent meeting of the Chief Technology Officers’ Group called for ITU to *“initiate an investigation into the areas of big data in need of accelerated standardization”*[[5]](#footnote-6). The CTO meeting also proposed *“the initiation of a project to encourage ITU-T Study Groups to study the implications and possibilities for big data in their specialist areas and to coordinate the work with other SDOs working on big data.”*

A workshop will be held within the meeting of the ITU Telecommunication Standardization Advisory Group (TSAG), on 17 June 2014, to review recent developments and consider the best approach for ITU-T to take into account big data.

A [full list](http://www.itu.int/ITU-T/techwatch/reports.html) of all Technology Watch Reports and TechWatch Alerts is available on the ITU-T Technology Watch website.

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# Resolution 67 – Use in the ITU Telecommunication Standardization Sector of the languages of the Union on an equal footing

**Resolution 67**

resolves

1 that the ITU‑T study groups, within their terms of reference, should continue their work on technical and operational terms and their definitions in English only;

2 that the work on standardization vocabulary within ITU‑T shall be based on the proposals made by the study groups in the English language, with the consideration and adoption of the translation into the other five official languages as proposed by the General Secretariat, and that this shall be ensured by SCV;

3 that, when proposing terms and definitions, the ITU‑T study groups shall use the guidelines given in Annex B to the "Author's guide for drafting ITU-T Recommendations";

4 that, where more than one ITU‑T study group is defining the same terms and/or concept, efforts should be made to select a single term and a single definition which is acceptable to all of the ITU‑T study groups concerned;

5 that, when selecting terms and preparing definitions, the ITU‑T study groups shall take into account the established use of terms and existing definitions in ITU, in particular those appearing in the online ITU Terms and Definitions database;

6 that the Telecommunication Standardization Bureau (TSB) should collect all new terms and definitions, which are proposed by the ITU‑T study groups in consultation with SCV, and enter them in the online ITU Terms and Definitions database;

7 that SCV should work in close collaboration with the Coordination Committee on Vocabulary (CCV) of the ITU Radiocommunication Sector,

instructs the Director of the Telecommunication Standardization Bureau

1 to continue to translate all Recommendations approved under the traditional approval process (TAP) in all the languages of the Union;

2 to translate all Telecommunication Standardization Advisory Group (TSAG) reports in all the languages of the Union;

3 to include in the circular that announces the approval of a Recommendation an indication of whether it will be translated,

invites the Council

to take appropriate measures to ensure that information on the ITU websites is made available in all the official languages of the Union on an equal footing within budgetary limits;

instructs the Telecommunication Standardization Advisory Group

to consider the best mechanism for deciding which Recommendations approved under the alternative approval process (AAP) shall be translated, in light of the relevant Council decisions.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [67-01](#Item67_01) | SGs to follow the guidelines on the use of language and coordination on terms and definitions in this Resolution. | Ongoing | √ |  |
| [67-02](#Item67_02) | TSB to enter all new terms and definitions in the online ITU Terms and Definitions database | Ongoing | √ |  |
| [67-03](#Item67_03) | Director to continue translate TAP Recs, TSAG reports in all languages of the Union, indicate in approval announcement whether a Rec will be translated | Ongoing | √ |  |
| [67-04](#Item67_04) | Director to invite Council to ensure ITU websites in all languages of the Union on an equal footing within budgetary limits | Ongoing | √ |  |
| [67-05](#Item67_05) | TSAG to consider best mechanism to decide which AAP Rec shall be translated, in light of relevant Council decisions | Ongoing | √ |  |

Action Item 67-01: SGs

Action Item 67-02: TSB

TSB continues to enter new terms and abbreviations into the online ITU Terms and Definitions database. As of 24 April 2014, 5,588 terms and 16,075 abbreviations have been entered into the database since WTSA-08.

Action Item 67-03: TSB

All TAP Recommendations continue to be translated into all the languages of the Union on an equal footing.

In accordance with Action Item 67-05, TSB will include in the circular that announces the approval of AAP Recommendations an indication of whether they will be translated, once the mechanism for selecting the candidate AAP Recommendations has been established by TSAG and if the funds are available in the budget. TSB is actively exploring mechanisms to translate AAP Recommendations at a lower cost without reducing quality.

Action Item 67-04: TSB

In the WTSA-12 report to Council 2013 ([C13/22](http://www.itu.int/md/S13-CL-C-0022/en)), the TSB Director invites Council to take appropriate measures to ensure that information on the ITU websites is made available in all the official languages of the Union on an equal footing within budgetary limits.

Action Item 67-05: TSAG

While all Recommendations approved through the traditional approval (TAP) process continue to be translated into the six official languages, TSB is looking for ways to increase the translation of Recommendations approved under the alternative approval process (AAP) and identified by the language groups and the study groups as priorities. As requested by TSAG at its 2013 meeting, TSB has received from the ITU-T study groups and from a Russian linguistic group an updated list of AAP Recommendations candidate for translation and has, since June 2013, translated 13 of these high-priority AAP Recommendations.

At the same time, TSB has initiated a new pilot project to translate AAP Recommendations at rates that would allow for the translation of more Recommendations given a limited budget, and where participating recognized institutions specialized in the field of telecommunications will provide high quality translations into the language of their own linguistic group. The success of this pilot project will be determined by the quality of the translations. The trial has already started for Russian and it is expected to start soon for Chinese. In this sense, and in the spirit of equal treatment for all languages, TSB wishes to also receive advice from the other linguistic groups on the AAP Recommendations they wish translated according to their particular needs.

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# Resolution 68 - Implementation of Resolution 122 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference on the evolving role of the World Telecommunication Standardization Assembly

**Resolution 68**

resolves to instruct the Director of the Telecommunication Standardization Bureau

1 to organize meetings for high-level industry executives, e.g. chief technology officer (CTO) meetings, in order to assist in identifying and coordinating standardization priorities and subjects to minimize the number of forums and consortia;

2 to bring the needs of developing countries to those meetings by consulting them prior to the meetings using questionnaires;

3 to develop effective mechanisms to attract an increased number of high-level technology executives to participate in those meetings, with a view to enhancing cooperation, collaboration and coordination with their organizations, and encouraging those organizations to join ITU‑T as a Sector Member, or as Sector Members, as appropriate;

4 to report on progress on this resolution to the Telecommunication Standardization Advisory Group and to the next WTSA, with lessons learned.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [68-01](#Item68_01) | Director to organize Chief Technical Officer (CTO) meetings | Ongoing | √ |  |
| [68-02](#Item68_02) | Director to develop effective mechanisms to attract high-level participation and promote ITU-T membership | Ongoing | √ |  |
| [68-03](#Item68_03) | TSB to develop questionnaire to survey developing countries for their standardization needs prior to CTO meetings | Ongoing |  |  |
| [68-04](#Item68_04) | Director to report on progress and lessons learned to TSAG and WTSA-16 | Ongoing |  |  |

Action Item 68-01 and 68-02: TSB

CTO Group meetings are held in conjunction with major industry events to facilitate participation. The fifth meeting took place on Monday, 18 November 2013 in Bangkok, Thailand during ITU TELECOM World 2013. Further information on TELECOM World 2013 can be found at: <http://itu.int/en/itutelecom> and <http://world2013.itu.int/#itu_2013>

Action Item 68-03: TSB

Action Item 68-04: TSB

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# Resolution 69 - Non discriminatory access and use of Internet resources

**Resolution 69**

resolves to invite Member States

1 to refrain from taking any unilateral and/or discriminatory actions that could impede another Member State from accessing public Internet sites and using resources, within the spirit of Article 1 of the Constitution and the WSIS principles;

2 to report to the Director of the Telecommunication Standardization Bureau (TSB) on any incident of this kind referred to in *resolves* 1 above,

instructs the Director of the Telecommunication Standardization Bureau

1 to integrate and analyse the information on incidents reported from Member States;

2 to report this information to Member States, through an appropriate mechanism;

3 to report to the Telecommunication Standardization Advisory Group (TSAG) on progress on this resolution, in order for TSAG to evaluate the effectiveness of its implementation;

4 to report on progress on this resolution to the next world telecommunication standardization assembly,

instructs the Secretary-General

to report annually to the ITU Council on progress on this resolution,

invites Member States and Sector Members

to submit contributions to the ITU‑T study groups that contribute to the prevention and avoidance of such practices.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [69-01](#Item69_01) | Director to integrate and analyse incident reports from Member States. | Ongoing | √ |  |
| [69-02](#Item69_02) | TSB to provide Member States with access to incident reports received on the website set up for this resolution | Ongoing | √ |  |
| [69-03](#Item69_03) | Director to submit progress report to TSAG, for TSAG to evaluate the effectiveness of its implementation. | TSAG 2014 | √ |  |
| [69-04](#Item69_04) | Director to report on progress on this resolution to WTSA-16 | TSAG 2016 |  |  |
| [69-05](#Item69_05) | Sec-Gen to report annually to Council | Council annually | √ |  |

Action Item 69-01: TSB

TSB has not received any new incident reports by 5 June 2014.

Action Item 69-02: TSB

Action Item 69-03: TSB and TSAG

This document.

Action Item 69-04: TSB

Action Item 69-05: TSB

The TSB Director reports are found in the Council-13 and Council-14 documents on “ITU Internet activities: Resolutions 101, 102 and 133” about updates regarding WTSA Resolution 69.

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# Resolution 70 - Telecommunication/ information and communication technology accessibility for persons with disabilities

**Resolution 70**

resolves

1 that Study Group 2, Study Group 16 and JCA-AHF shall continue giving high priority to work on the relevant Questions, in accordance with the accessibility guidelines, as shown in the guide for ITU‑T study groups: "Considering End-User Needs in developing Recommendations" – facilitating the implementation of new software, services and proposals that enable all persons with disabilities, including persons with age-related disabilities, to effectively use telecommunication/ICT services; the "ITU-T Technical Paper, Telecommunications Accessibility Checklist" for standards writers; and Recommendation ITU‑T F.790 on telecommunication accessibility guidelines for older persons and persons with disabilities;

2 that ITU study groups draft proposals to achieve greater accessibility to telecommunications/ICTs, combining the drafting of non-discriminatory standards, service regulations and measures for all persons with disabilities, including older persons with age-related disabilities, with cross-cutting user-protection actions;

3 to ask all ITU-T study groups to utilize the Telecommunications Accessibility Checklist, which makes it possible to incorporate the principles of universal design and accessibility;

4 that an ITU workshop be held to inform about the progress in the work and the results achieved by the study groups in charge of ICT accessibility before the next world telecommunication standardization assembly,

invites Member States and Sector Members

1 to consider developing, within their national legal frameworks, guidelines or other mechanisms to enhance the accessibility, compatibility and usability of telecommunication/ICT services, products and terminals;

2 to consider introducing telecommunication relay services[[6]](#footnote-7)2 to enable persons with hearing and speech disabilities to utilize telecommunication services that are functionally equivalent to telecommunication services for persons without disabilities;

3 to participate actively in accessibility-related studies in ITU‑T, ITU‑R and ITU‑D, and to encourage and promote self‑representation by persons with disabilities in the standardization process so as to ensure their experiences, views and opinions are taken into account in all the work of study groups;

4 to encourage the provision of differentiated and affordable service plans for persons with disabilities in order to increase the accessibility and usability of telecommunications/ICT for these persons;

5 to encourage the development of applications for telecommunication products and terminals to increase the accessibility and usability of telecommunications/ICT for persons with visual, auditory, verbal and other physical and mental disabilities;

6 to encourage regional telecommunication organizations to contribute to the work and consider implementing the results achieved in the study groups and the workshop on this topic,

instructs the Director of the Telecommunication Standardization Bureau

to report to the ITU Council on the implementation of this resolution,

invites the Director of the Telecommunication Standardization Bureau

1 to identify and document examples of best practice for accessibility in the field of telecommunication/ICT for dissemination among ITU Member States and Sector Members;

2 to review the accessibility of ITU‑T services and facilities and consider making changes, where appropriate, pursuant to United Nations General Assembly Resolution 61/106, and to report to the Council on these matters;

3 to work collaboratively on accessibility-related activities with the Directors of the Radiocommunication Bureau (BR) and the Telecommunication Development Bureau (BDT), in particular concerning awareness and mainstreaming of telecommunication/ICT accessibility standards, reporting findings to the Council as appropriate;

4 to work collaboratively on accessibility-related activities with ITU‑D, in particular developing programmes that enable developing countries to introduce services that allow persons with disabilities to utilize telecommunication services effectively;

5 to work collaboratively and cooperatively with other standardization organizations and entities, in particular, in the interest of ensuring that ongoing work in the field of accessibility is taken into account, in order to avoid duplication;

6 to work collaboratively and cooperatively with disability organizations in all regions to ensure that the needs of the disabled community are taken into account in all standardization matters;

7 to contribute to the development of an ITU-wide internship programme for people with disabilities who have expertise in the field of ICTs, so as to build capacity among people with disabilities in the standards-making process and to raise awareness within ITU‑T of the needs of persons with disabilities;

8 to continue the accessibility coordination and advisory function within ITU‑T in order to assist the Director of TSB in reporting the findings of the review of ITU‑T services and facilities;

9 to consider using accessibility resources in the meetings organized by ITU-T in order to encourage the participation of persons with disabilities in the standardization process,

instructs the Telecommunication Standardization Advisory Group

1 to revise the guide for ITU study groups – "Considering End-User Needs in developing Recommendations",

2 to request study groups to facilitate, in their respective work, the implementation of new software, services and proposals enabling all persons with disabilities, including persons with age-related disabilities, to effectively use telecommunication/ICT services, and relevant guidelines for end‑user needs, in order specifically to include the needs of persons with disabilities, and to update this guide on a regular basis, based on contributions from Member States and Sector Members as well as the ITU‑T study groups, as appropriate.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [70-01](#Item70_01) | SG2, SG16 and JCA-AHF (Human factors and accessibility) to continue work on accessibility with high priority | Ongoing | √ |  |
| [70-02](#Item70_02) | TSB to hold an ITU workshop on progress and achievement of ITU-T SGs on ICT accessibility before WTSA-16 | 30/09/2016 |  |  |
| [70-03](#Item70_03) | TSB Dir to report to Council | Council 2016 |  |  |
| [70-04](#Item70_04) | TSB to identify, document and disseminate best practices for telecommunication/ICT accessibility among ITU membership. | Ongoing | √ |  |
| [70-05](#Item70_05) | Director to review and consider making changes to the accessibility of ITU-T services and facilities | Ongoing | √ |  |
| [70-06](#Item70_06) | Director to work collaboratively with other Dirs on accessibility activities on ITU wide awareness and mainstreaming of telecommunication/ICT Accessibility Standards, reporting findings to Council as appropriate  | Ongoing | √ |  |
| [70-07](#Item70_07) | Director, in collaboration with BDT Director, in developing programmes to enable developing countries to introduce services to enable persons with disabilities to use ICT services effectively | Ongoing | √ |  |
| [70-08](#Item70_08) | TSB to work collaboratively and cooperatively with other SDOs to avoid duplication, and with disability orgs to ensure accessibility needs are taken into account in standardization | Ongoing | √ |  |
| [70-09](#Item70_09) | Director to contribute to the development of an ITU-wide internship programme to involve persons with disabilities and ICT expertise. | Ongoing | √ |  |
| [70-10](#Item70_10) | Director to continue the disability coordination and advisory function within ITU-T. | Ongoing | √ |  |
| [70-11](#Item70_11) | Director to consider using accessibility resource to encourage participation of persons with disabilities | Ongoing | √ |  |
| [70-12](#Item70_12) | TSAG to revise the guide for ITU study groups – ‘considering end-user needs in developing Recommendations’, and request SGs to implement this guide | Ongoing  | √ |  |

Action Item 70-01: TSB

TSB has continued working in relevant study groups to advance the accessibility of ICT networks, services and applications.

The ITU-T Joint Coordination Activity on Accessibility and Human Factors ([JCA-AHF](http://www.itu.int/en/ITU-T/jca/ahf/Pages/default.aspx)) continues to be active, by increasing awareness and keeping accessibility to ICTs. In 2013 the Joint Coordination Activity on Accessibility and Human Factors met four times, contributing to the positive trend of increase awareness of standardization and accessibility to ICTs in the sector and overall ITU. The JCA-AHF met in conjunction with SG16, Question 26 and among the topics discussed were accessible remote participation, relay services requirements and the final deliverables of the Focus Group on Audiovisual Media Accessibility, which concluded its work in October 2013.

The JCA-AHF also met during the ITU-D Rapporteurs Meetings (April 2013), in order to reach out to the participants of the Development sector, and in particular the ones attending Question 20-1 “Access to telecommunication/‌ICT services by persons with disabilities and with special needs”.

The JCA-AHF also met in conjunction with the parent Group 2, to facilitate the attendance and the cooperation of the work with Question 4 of Study Group 2.

The ITU-T Focus Group on Audio-visual Media Accessibility ([FG-AVA](http://www.itu.int/en/ITU-T/focusgroups/ava/Pages/default.aspx)) concluded its work on 24 October 2013. The eighteen deliverables are an additional resource around the theme of audiovisual media accessibility and are published as FG-AVA Technical Reports. They cover a large range of themes including, to name few, clean audio, guidelines for production of sign language services, requirements for closed signing, and a tool for decision-makers on audiovisual media accessibility, Also, all the new items and deliverables produced by FG-AVA feeded in the work carried out by ITU-T [Study Group 16 “Multimedia”](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx), and ITU-R [Study Group 5 “Terrestrial Services”](http://www.itu.int/en/ITU-R/study-groups/rsg5/Pages/default.aspx) and [Study Group 6 “Broadcasting Service”](http://www.itu.int/en/ITU-R/study-groups/rsg6/Pages/default.aspx).

Building on the recommendations from FG-AVA, ITU-T and ITU-R jointly established the ITU Intersector Rapporteur Group on Audio-visual Media Accessibility ([IRG-AVA](http://www.itu.int/en/irg/ava/Pages/default.aspx)) in December 2013. IRG-AVA studies topics related to audio-visual media accessibility, “Access Systems” which can be used for all media delivery systems, including broadcast, cable, Internet, and IPTV, aiming at the development of Recommendations and other materials, within the current mandate of ITU-R Study Group 6 and of ITU-T [Study Groups 9 “Broadband cable and TV”](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) and 16. The IRG-AVA also addresses matters contributing to the coordination of standardization work involving ITU-T and ITU-R groups and collaborates with other organizations.

Action Item 70-02: TSB

To advance the work and in view of the ITU workshop on progress and achievement of ITU-T SGs on ICT accessibility to be held before the next WTSA, a two day workshop was organized by the ITU-T Study Group 16 Focus Group on Audio Visual Accessibility (FG-AVA) 24 - 25 October 2013, ITU Headquarters, Geneva. The objective of the ITU workshop was to explain the options available for access services, the economics of providing them, and to offer successful financial case studies of their use. The workshop was of value to all those making content for, manufacturing equipment for, regulating, using, or contemplating using, access tools with media. This trend of work is expected to grow with the growing application of the United Nations Convention on the Rights of Persons with Disabilities which will make such services an obligatory requirement.

Furthermore, TSB is actively contributing to the planning and the organization of other events, among others a regional seminar, led by BDT – RO of Americas, around the theme of accessibility to ICTs, which will take place later in 2014 (exact dates to be confirmed).

Action Item 70-03: TSB

The Document “ITU’s activities in promoting accessibility to ICTs for persons with disabilities” to Council 2014 [(C14/5)](http://www.itu.int/md/S14-CL-C-0005/en) includes updates with respect to Resolution 70.

Action Item 70-04: TSB

TSB contributes to the activity of the Union in the field of Accessibility to ICTs, working in close cooperation with the ITU focal points on accessibility.

Action Item 70-05: TSB

TSB actively and continuously contributed to the completion of the forthcoming ITU policy on Accessibility, which was endorsed at Council-13.

TSB contributed greatly to the work of the Accessibility Task Force in developing the ITU 2014 Accessibility Plan, which will be presented as an information document to the upcoming Council session. The document was published as  [ITU Accessibility Plan for 2014](http://www.itu.int/md/S14-CL-INF-0002/en). (Document C14/INF/2)

Action Item 70-06: TSB

Action Item 70-07: TSB

TSB is actively contributing to the planning and the organization of other events, among others a regional seminar, led by BDT – RO of Americas, around the theme of accessibility to ICTs, which will take place later in 2014 (exact dates to be confirmed).

Action Item 70-08: TSB

(See also Action Item 07-03).

Action Item 70-09: TSB

This item is included in the ITU policy on Accessibility, which was endorsed at Council-13, to which TSB contributed.

Action Item 70-10: TSB

Action Item 70-11: TSB

TSB provides several services and tools that enabled remote participation and reasonable accommodation to persons with disabilities. TSB provides teleconference facilities, tools for remote sharing of documents (Adobe Connect), sign language interpretation (under request) and real time captioning, in order to allow a fully accessible meeting as well as accessible remote participation.

Action Item 70-12: TSAG

TSAG will consider updating the Revision of the Guide for ITU-T Study Groups: "Considering End-User Needs in developing Recommendations" after the ISO/IEC Guide 71/ITU-T Supplement, “Guide for addressing accessibility in standard” is approved (planned by end of 2014).

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# Resolution 71 - Admission of academia to participate in the work of the ITU Telecommunication Standardization Sector

**Resolution 71**

resolves

1 to assess the participation of academia since the approval of Resolution 169 (Guadalajara, 2010);

2 to allow the participation of academia in the various ITU-T study groups, workshops and working parties and the Telecommunication Standardization Advisory Group (TSAG), bearing in mind that academia should not have a role in decision-making;

3 that academia shall be granted access to ITU-T documents;

4 that a representative from academia may serve as rapporteur;

5 to allow the participation of academia in the Global Standards Symposium (GSS) and the World Telecommunication Standardization Assembly (WTSA), in a non-advisory capacity;

6 to allow the participation of academia in WTSA side events and exhibitions;

7 to assign to TSAG study of the need for any additional measures and/or arrangements to facilitate the participation of academia and to benefit from their technical and intellectual expertise, and to report the results, through the Director of the Telecommunication Standardization Bureau, to the Council and to the next WTSA in 2016;

8 that the amount of the annual financial contribution for the participation of academia should be a reduced amount, particularly for academia in developing countries[[7]](#footnote-8)2,

instructs the Director of the Telecommunication Standardization Bureau

1 to continue his successful efforts to explore and recommend, based in part on advice from TSAG, various mechanisms, such as the use of voluntary financial and in-kind contributions, to encourage cooperation with, and facilitate the increased participation of, academia in all six regions[[8]](#footnote-9)3;

2 to continue to organize the Kaleidoscope event annually and on the basis of rotation between the six regions, to the greatest extent possible;

3 to cooperate with ITU-TELECOM in order to spread awareness of the value of academia membership in ITU-T,

invites the Council

to consider, in submitting its report to the next plenipotentiary conference (Busan, 2014), the positive contribution to ITU's various activities made by academia, and recommend that academia continue to be admitted to participate in the work of the three Sectors of ITU on a permanent basis,

invites the ITU membership

to inform academia of this resolution and to support and encourage academia to join ITU-T and participate in its activities.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [71-01](#Item71_01) | TSB Director to invite Council to assess the participation of academia according to PP-10 Res 169 and report and recommend to PP-14 that ITU admit participation from academia on a permanent basis  | Council 2013 | √ |  |
| [71-02](#Item71_02) | TSB to continue to provide necessary support for the participation of academia | Ongoing |  |  |
| [71-03](#Item71_03) | TSAG to study need of any additional measures/arrangement to facilitate academia, and report to Council and to WTSA-16 | Ongoing  |  |  |
| [71-04](#Item71_04) | TSB Director to continue to explore and recommend mechanisms to encourage cooperation between ITU-T and academia. | Ongoing | √ |  |
| [71-05](#Item71_05) | TSB Dir to continue to organize Kaleidoscope event annually | Ongoing | √ |  |
| [71-06](#Item71_06) | TSB to cooperate with ITU-Telecom to promote academia membership in ITU-T | Ongoing | √ |  |

Action Item 71-01: TSB

In the ITU Activity report to Council 2013 ([C13/35](http://www.itu.int/md/S13-CL-C-0035/en)), the TSB Director reports about the successful uptake of ITU-T Academia membership by universities. As of April 2014 there are now 45 universities with academia membership.

Council Working Group on Financial and Human Resources (CWG-FHR) is dealing with the matter of academia participation. As per document [CWG-FHR-3/13](http://www.itu.int/md/S14-CLCWGFHRM3-C-0013/en), the current proposal under consideration is to continue the trial period for Academia participation and revise conditions as required while maintaining the existing fee levels.

Action Item 71-02: TSB

Action Item 71-03: TSAG

Action Item 71-04: TSB

Several initiatives have been put in place to encourage cooperation between ITU-T and academia. Among them: the annual flagship ‘Kaleidoscope’ conference for academia; visits of university students to the ITU headquarters and seminars on ITU-T activities; visits and presentations of TSB staff to universities, including academia members; promotional academic workshops in conjunction with ITU(-T) events; dissemination of ITU-T promotional materials during events targeting academia; invitations to academia to participate in ITU-T events, as attendees or speakers, and contribute to relevant Focus Groups meetings; remote participation in ITU-T major symposia, seminars, and workshops allowing academia to participate, avoiding the financial and environmental costs of travel.

Contributions of academia and research institutes are very much encouraged in the ITU-T Technology Watch initiative and the TSB Challenges, such as the ICT Innovation Application Challenge, the ITU Green ICT Application Challenge, and the ITU IPTV Application Challenge.

TSB Director continues to explore and recommend mechanisms to strengthen cooperation with the academic world. The new Lecture Series initiative offers academia the opportunity for lectures delivered by ITU expert staff as contributions to their curricula. TSB is also keen to invite professors to the ITU to give a lecture on a topic of common interest, and as speakers at its events.

Established in July 2012, the TSB Director’s Ad hoc Group on Education about Standardization (AHG-SE) investigates academia’s approach toward ICT standardization, with a view to increasing the significance assigned to the subject in academic curricula. The third meeting took place on 2 June 2014, back to back with Kaleidoscope 2014 (3-5 June). Workshops on standards education are also co-organized with academia and relevant institutions. The next workshop, jointly organized with the IEEE and the Institute of Electronics, Information and Communication Engineers of Japan (IEICE), took place in St Petersburg, in conjunction with the AHG-SE 3rd meeting. ITU academia members and representatives from relevant institutions will also join.

TSB also collaborates with ISO and IEC in the organization of academic weeks and roundtables, under the umbrella of the World Standards Cooperation (WSC), and participates in the annual workshops organized by the International Cooperation for Education about Standardization (ICES). Last ICES Workshop and WSC Academic Day took place in Sophia Antipolis, France, 12-14 June 2013. Next events will be held in Ottawa (Canada), 14-15 August 2014.

Partners interested in collaborating with the ITU-T to advance standards education worldwide include the IEEE Standards Education Committee (SEC), the UN Economic Commission for Europe (UNECE) STaRT-ED Group, the Standard Education Committee of the IEICE, and CEN/CENELEC Group for education about standardization.

Action Item 71-05: TSB

Kaleidoscope is a forum for universities, industry and research institutions of different fields, promoting the sharing of knowledge and identification of emerging ICT developments. ITU Kaleidoscope 2014 “Living in a converged world – impossible without standards?” is the sixth in the series of Kaleidoscope conferences and will take place in Saint Petersburg, Russian Federation, 3-5 June 2014.

Kaleidoscope 2014[[9]](#footnote-10) is organized by ITU and technically co-sponsored by the [Institute of Electrical and Electronics Engineers (IEEE)](http://www.ieee.org/index.html), the [Institute of Electronics, Information and Communication Engineers of Japan (IEICE)](http://www.ieice.org/eng/index.html), and the Popov Society of the Russian Federation. K-2014 will be held at the invitation of the Russian Federation’s Ministry of Telecom and Mass Communications.

98 papers were submitted for review, 34 of which will be presented at the conference and published in the Kaleidoscope Proceedings and IEEE XPlore. A prize fund totalling $10,000 will be awarded to the three best papers. Noteworthy papers are considered for publication in IEEE Communications Magazine.

The ITU academia membership category, launched in 2011, fortified the cause of the Kaleidoscope series, and the conference is increasing in importance as academia scales-up its engagement in ITU work.

Action Item 71-06: TSB

A 2-day Academia workshop took place during Telecom 2013, Bangkok, Thailand, to promote ITU Academia membership. The event was organized by Dr. Toshio Obi, ITU Special Envoy for Academia. It attracted about 20 universities and lead to the recruitment of a new ITU-T academia member from Thailand (Thammasat University, College of Innovation).

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# Resolution 72 - Measurement concerns related to human exposure to electromagnetic fields

**Resolution 72**

resolves

to invite ITU‑T, in particular Study Group 5, to expand and continue its work and support in this domain, including but not limited to:

i) disseminating information related to this topic through organizing workshops and seminars for regulators, operators and any interested stakeholders from developing countries;

ii) continuing to cooperate and collaborate with other organizations working on this topic and to leverage their work, in particular with a view to assisting the developing countries in the establishment of standards and in monitoring compliance with these standards, especially on telecommunication terminals;

iii) cooperating on these issues with ITU‑R Study Groups 1 and 6, and with Study Group 1 of the ITU Telecommunication Development Sector (ITU‑D) in the framework of Question 23/1;

iv) strengthening coordination with WHO so that any fact sheet relating to human exposure to electromagnetic fields is circulated to Member States as soon as it is issued,

instructs the Director of the Telecommunication Standardization Bureau, in close collaboration with the Directors of the other two Bureaux, and within the available financial resources

1 to support the development of reports identifying the needs of developing countries on the issue of assessing human exposure to EMF, and submit the reports as soon as possible to ITU-T Study Group 5 for its consideration and action in accordance with its mandate;

2 to hold workshops in developing countries with presentations and training on the use of equipment employed in assessing human exposure to RF energy;

3 to support developing countries while they establish their regional centres equipped with test benches for monitoring conformance of telecommunication terminal equipment and human exposure to electromagnetic waves using, among other things, the modalities listed in Resolutions 44 (Rev. Dubai, 2012) and 76 (Rev. Dubai, 2012) of this assembly, in the context of the development of the regional test centres and of Resolution 177 (Guadalajara, 2010) of the Plenipotentiary Conference,

invites Member States and Sector Members

to contribute actively to the work of Study Group 5 in providing relevant and timely information in order to assist developing countries in providing information and addressing measurement concerns related to RF exposure and electromagnetic fields,

further invites Member States

to adopt suitable measures in order to ensure compliance with relevant international recommendations to protect health against the adverse effect of EMF.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [72-01](#Item72_01) | TSB/SG5 to organize EMF workshops and seminars for regulators, operators etc from developing countries | Ongoing | √ |  |
| [72-02](#Item72_02) | SG5 to coordinate with WHO so that fact sheets relating to human exposure to electromagnetic fields is circulated to Member States as soon as it is issued | Ongoing | √ |  |
| [72-03](#Item72_03) | Director, in collaboration with other Dirs, to support the development of reports identifying needs of developing countries for consideration by ITU-T SG5 | Ongoing | √ |  |
| [72-04](#Item72_04) | Director, in collaboration with other Dirs, to support the developing countries to establish regional test centres (see also [Resolution 76](#_Resolution_76_-)) | Ongoing |  |  |
| [72-05](#Item72_05) | TSB/SG5 to disseminate information on EMF  | Ongoing  | √ |  |

Action Item 72-01: TSB/SG5

An ITU Workshop on human exposure to electromagnetic fields[[10]](#footnote-11) co-organized with the Italian Ministry of Economic Development and hosted by Telecom Italia took place in Turin on 9 May 2013.

It ended with a [Call to Action](http://www.itu.int/en/ITU-T/climatechange/emf-1305/Documents/Turin-Call-to-Action.pdf), which encourages ITU-T SG 5 to continue leading cooperation among standards development organizations (SDOs) in the interests of harmonized international EMF standards. In particular it calls on ITU-T to extend its work on human exposure to EMFs by developing and promoting EMF information and education resources accessible to all communities; establishing specialised EMF assessment and accreditation training programs for developing countries; and promoting open online compliance and reporting systems as well as the development of a standardized online system to demonstrate compliance with international EMF standards.

ITU-T Study Group 5 Vice Chairman of Working Party 2 delivered a Training Session on ITU-T Recommendations (ITU-T K.52, 61, 62, 70, 83, 90 and 91) on EMF in India on 21-22 May 2013.

An ITU Workshop on human exposure to electromagnetic fields in Latin America, kindly hosted by Telefónica took place on 14 August in Quito, Ecuador. The event concluded with an Outcome Document which calls on Governments in Latin America and ICT industry to deep the work related to EMF, health and Environment to facilitate the deployment of wireless networks with the participation of the population protecting the environment, the urban patrimony, and the human health under the frame of ITU and WHO Recommendations.

A Workshop on "With ICT's everywhere - How safe is EMF in Latin America?" took place on 10 December 2013, in Lima, Peru.

A Forum on Human Exposure to Electromagnetic Fields (EMFs) in Latin America took place on 13 March 2014, Montevideo, Uruguay.

A Forum on "EMF - What does it really mean?" will take place on 3 July 2014, Santo Domingo, Dominican Republic.

A Forum on “Using EMF to achieve the smartest sustainable city” will take place on 26 September 2014 in Beijing, China, followed by the Regional meeting of ITU-T Study Group 5 Regional Group for Asia and the Pacific (SG5 RG-AP).

Action Item 72-02: SG5

WHO representatives participate regularly in ITU-T SG5 related meetings and have circulated and presented information on latest WHO factsheets regularly.

Action Item 72-03: TSB

TSB is developing a mobile application on EMF issues with the kind support of Telstra and in collaboration with WHO. The primary audience for the mobile application will be the public, representatives from municipalities, government officials, policy makers and people needing a simple explanation of EMF including common questions and answers.

Action Item 72-04: TSB

See [Resolution 76](#_Resolution_76_-).

Action Item 72-05: TSB

A website providing information on ITU including ITU-T SG5 activities on human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment has been created and is available at: <http://www.itu.int/en/ITU-T/emf/Pages/default.aspx>

A flyer on ITU-T SG5 activities on human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment is available at: <http://www.itu.int/en/ITU-T/emf/Documents/EMF-flyer.pdf>.

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# Resolution 73 - Information and communications technologies, environment and climate change

**Resolution 73**

resolves

1 to continue and further develop the ITU‑T work programme initially launched in December 2007 on ICTs and climate change, as a high priority, in order to contribute to the wider global efforts to moderate climate change, as part of the United Nations processes;

2 to take into account the progress already made in the international symposia on ICTs, environment and climate change, held in various parts of the world[[11]](#footnote-12)2, by distributing their outcomes as widely as possible;

3 to continue to maintain and update the ITU-T Global Portal on ICTs, environment and climate change, extending its features by developing an electronic and interactive forum to share information and to disseminate ideas, standards and best practices on the relationships between ICTs and environmental sustainability, experiences and practices for disclosure, labelling schemes and recycling facilities;

4 to promote the adoption of Recommendations for enhancing the use of ICTs to serve as a potent and cross-cutting tool to assess and reduce GHG emissions, optimize energy and water consumption, minimize e-waste and improve its management across economic and social activities;

5 to increase awareness and promote information sharing on the role of ICTs in enhancing environmental sustainability, in particular by promoting the use of more energy-efficient[[12]](#footnote-13)3 devices and networks and more efficient working methods, as well as ICTs that can be used to replace or displace higher energy consuming technologies/uses;

6 to work towards the reductions in emissions of GHGs arising from the use of ICTs that are necessary to meet the goals of UNFCCC;

7 to work towards a reduction of the adverse environmental impact of environmentally unfriendly materials used in ICT products;

8 to bridge the standardization gap by providing technical assistance to countries to develop their national green ICT action plans, and develop a reporting mechanism in order to support countries in implementing their plan;

9 to set up e-learning programmes on Recommendations related to ICT, the environment and climate change,

instructs the Telecommunication Standardization Advisory Group

1 to coordinate the activities of ITU-T study groups in relation to their review of relevant standardization activities of other standards developing organizations (SDOs) and facilitate collaboration between ITU and those SDOs in order to avoid duplication of, or overlap in, international standards, through in particular the JCA on ICT and climate change;

2 to ensure that study groups carry out a review of both the appropriate existing ITU‑T Recommendations and all future Recommendations to assess their implications and the application of best practices in the light of the protection of environment and climate change;

3 to consider further possible changes to working procedures in order to meet the objective of this resolution, including extending the use of electronic working methods to reduce the climate-change impact, such as paperless meetings, virtual conferencing, teleworking, etc.,

instructs all ITU‑T study groups

1 to cooperate with Study Group 5 to develop appropriate Recommendations on ICTs, the environment and climate‑change issues within the mandate and competency of ITU‑T, including telecommunication networks used for monitoring and adapting to climate change, for example disaster preparedness, signalling and quality of service issues, taking into account any economic impact on all countries and in particular on developing countries;

2 to identify best practices and opportunities for new applications using ICTs to foster environmental sustainability, and to identify appropriate actions;

3 to liaise with the relevant ITU‑R and ITU‑D study groups and promote liaison with other standards development organizations and forums in order to avoid duplication of work, optimize the use of resources and accelerate the availability of global standards,

instructs the Director of the Telecommunication Standardization Bureau, in collaboration with the Directors of the other Bureaux

1 to report on progress on the application of this resolution annually to the ITU Council and to the 2016 world telecommunication standardization assembly;

2 to keep up to date the calendar of events relevant to ICTs, the environment and climate change based on proposals by TSAG and in close collaboration with the other two Sectors;

3 to launch pilot projects, aimed at bridging the standardization gap, on environmental sustainability issues, in particular in developing countries;

4 to support the development of reports on ICTs, the environment and climate change, taking into consideration relevant studies, in particular the ongoing work of Study Group 5, including issues related to, *inter alia*, green data centres, smart buildings, green ICT procurement, cloud computing, energy efficiency, smart transportation, smart logistics, smart grids, water management, adaptation to climate change and disaster preparedness, and how the ICT sector contributes to annual reductions in GHG emissions, and submit the reports as soon as possible to Study Group 5 for its consideration;

5 to organize workshops and seminars for developing countries, to raise awareness and identify their particular needs and challenges on environment and climate-change issues;

6 to report on progress of the ITU/WMO/UNESCO IOC Joint Task Force to investigate the potential of using submarine telecommunication cables for ocean and climate monitoring and disaster warning;

7 to promote the ITU-T Global Portal on ICTs, environment and climate change and its use as an electronic forum for exchange and dissemination of ideas, experience and best practices on ICTs, the environment and climate change;

8 to report to TSAG on the progress regarding *invites the Secretary-General* below,

invites the Secretary-General

to continue to cooperate and collaborate with other entities within the United Nations in formulating future international efforts for the effective addressing of climate change,

invites Member States, Sector Members and Associates

1 to continue to contribute actively to Study Group 5 and other ITU-T study groups on ICTs, the environment and climate change;

2 to continue or initiate public and private programmes that include ICTs, the environment and climate change, giving due consideration to relevant ITU‑T Recommendations and relevant work;

3 to share best practices and raise awareness of the benefits associated with the use of green ICTs in accordance with ITU Recommendations related to the matter;

4 to promote the integration of ICT, climate, environment and energy policies in order to improve environmental performance and enhance energy efficiency and resource management;

5 to integrate the use of ICT into national adaptation plans to make use of ICTs as an enabling tool to address the effects of climate change;

6 to liaise with their national counterparts responsible for environmental issues in order to support and contribute to the wider United Nations process on climate change, by providing information and developing common proposals related to the role of telecommunications/ICTs in mitigating and adapting to the effects of climate change, so that they can be taken into consideration within UNFCCC.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [73-01](#Item73_01) | Director to continue and develop the ITU-T ICT and Climate Change work programme | Ongoing | √ |  |
| [73-02](#Item73_02) | TSB to continue maintain, update, develop and promote the ITU-T Global Portal on ICTs, environment and climate change | Ongoing | √ |  |
| [73-03](#Item73_03) | TSB to promote the adoption of ITU-T Recs as a potent and cross-cutting tool to assess and reduce GHG emission, optimize energy and water consumption, minimize e-waste, etc., increase awareness on the role of ICTs in enhancing environmental sustainability | Ongoing | √ |  |
| [73-04](#Item73_04) | TSB to provide technical assistance to develop national green ICT action plan, and develop a reporting mechanism to support countries in implementing their plans | Ongoing |  |  |
| [73-05](#Item73_05) | TSB to setup e-learning programmes on Recommendations related to ICT, environment and climate change | Ongoing |  |  |
| [73-06](#Item73_06) | TSAG to coordinate ITU-T SGs through JCA on ICT and climate change, and ensure study groups carry out review of existing and future Recommendations to assess implications and application of best practices in light of environment protection and climate change | Ongoing | √ |  |
| [73-07](#Item73_07) | TSAG to consider revision of working methods to reduce climate change impact | Ongoing |  |  |
| [73-08](#Item73_08) | Study Groups, especially SG5, to develop Recommendations on ICTs, environment and climate change | Ongoing | √ |  |
| [73-09](#Item73_09) | Director, in collaboration with other Dirs, to keep update the calendar of events relevant to ICTs, environment and climate change | Ongoing | √ |  |
| [73-10](#Item73_10) | Director, in collaboration with other Dirs, to launch pilot BSG projects on environmental sustainability issues, particular for developing countries | Ongoing | √ |  |
| [73-11](#Item73_11) | Director, in collaboration with other Dirs, to support development of reports on ICTs, environment and climate change, particularly relevant to Ongoing work of SG5 | Ongoing | √ |  |
| [73-12](#Item73_12) | Director, in collaboration with other Dirs, to organize workshops and seminars for developing countries to raise awareness and identify needs.  | Ongoing | √ |  |
| [73-13](#Item73_13) | Director to Report progress of ITU/WMO/UNESCO IOC Joint Task Force to investigate the potential of using submarine telecom cables for ocean and climate monitoring and disaster warning | Ongoing | √ |  |
| [73-14](#Item73_14) | Sec-Gen to continue cooperation and collaboration with other United Nations entities | Ongoing |  |  |
| [73-15](#Item73_15) | Director to report to TSAG on progress on cooperation with other UN entities, see [73-14](#Item73_10) | Ongoing | √ |  |

Action Item 73-01: TSBAction Item 73-02: TSB

TSB launched in February 2014 a Global portal on ICTs, Environment and Climate Change which is available at: [http://www.itu.int/en/ITU-T/climatechange/resources/Pages/default.aspx](http://www.itu.int/en/ITU-T/climatechange/resources/Pages/env-and-ssc.aspx)

Action Item 73-03: TSB

TSB is continuing to work with countries and ICT industry with the aim at implementing ITU-T recommendations on environment.

The ITU-T L.1410 and L.1420 Recommendations to assess the environmental impacts of ICTs are among 10 international methodologies to have been pilot-tested in Europe’s bid to establish and converge around a common international framework to assess the energy and emission footprint of the ICT sector.

In a study led by the European Commission, 27 leading ICT companies and associations engaged in a 10-month trial of measurement methodologies developed by entities including international standards development organizations (SDOs) such as (ITU-T, ISO, IEC, ETSI and the GHG Protocol.

The pilots recognized Recommendation ITU-T L.1420 as the only available international reporting methodology to assess ICT-related energy consumption and/or greenhouse gas (GHG) emissions in ICT organizations as well as ICT-related activities within non-ICT organizations.

As regards products, networks and services, similarities were found between Recommendation ITU-T L.1410 and ETSI TS 103 199 "Life Cycle Assessment (LCA) of ICT equipment, networks and services: General methodology and common requirements with the goal to develop a common ITU-T/ETSI Methodology for ICT products, networks and services".

Action Item 73-04: TSB

Action Item 73-05: TSB

Action Item 73-06: TSAG

Action Item 73-07: TSAG

Action Item 73-08: SG5

In addition to ITU-T SG5, many Questions in various study groups (e.g. SG16 and SG17) have a study point on climate change.

Action Item 73-09: TSB

TSB maintains up to date the calendar of events which is available at: [http://www.itu.int/en/ITU-T/climatechange/resources/Pages/default.aspx](http://www.itu.int/en/ITU-T/climatechange/resources/Pages/env-and-ssc.aspx)

Action Item 73-10: TSB

Action Item 73-11: TSB

A new report on ‘smart’ water management provides insight into the potential of ICTs to enhance the sustainability, accessibility and efficiency of our use of water resources.

The free-of-charge report, “Partnering for solutions: ICTs in Smart Water Management (SWM)”, is the product of collaboration between ITU and the United Nations Educational, Scientific and Cultural Organization (UNESCO).

The report opens with an overview of the conceptual underpinnings of smart water management and its capabilities in tackling water-management challenges. An analysis of the field’s primary stakeholders follows with details on their respective roles in the smart water ecosystem.

A centrepiece of the report is its presentation of case studies on smart water management projects underway in Africa, Asia, Europe, Latin America and the Caribbean, and North America. The featured projects were selected based on their merit in highlighting ICT’s role in improving water management and tackling water security, water accessibility, climate change and aging infrastructure.

Drawing on its discussion of the benefits of smart water management, the roles of the field’s various stakeholders and the results of ongoing smart water initiatives, the report distills a list of opportunities and challenges pertinent to the future development of smart water management systems; concluding with emphasis on the importance of multistakeholder collaboration in the task of matching the right technologies with the right stakeholders.

The report was launched at a four-day series of ITU-UNESCO events on ‘Smart Sustainable Cities’ in Montevideo, Uruguay, 11-14 March 2014.

Action Item 73-12: TSB and SGs

TSB in response to Resolution 73 has organized over 20 events including workshops and forums since the last TSAG meeting. A full list of climate change events can be found at: <http://www.itu.int/en/ITU-T/climatechange/Pages/events.aspx>

Upcoming events include:

* ITU Events on Smart Sustainable Cities to be held on 17-20 June 2014, Genoa, Italy
* Regional Standardization Forum, 23-25 June 2014, Kampala, Uganda
* Forum on Smart sustainable Cities (SSC) on 17 September 2014, London, United Kingdom
* 4th ITU Green Standards Week, to be held on 22-26 September 2014, Beijing, China

ITU Green Standards Week

ITU is organizing the fourth Green Standards Week, from 22 to 26 September 2014 in Beijing, China. The Green Standards Week will be kindly hosted by Huawei in close cooperation with the China Academy of Telecommunication Research (CATR) of the Ministry of Industry and Information Technology (MIIT) of the Government of the People's Republic of China. Its programme will include:

* 22 September 2014: Forum on “Green ICT for a sustainable resource efficient economy”
* 23 September 2014: Forum on "E-waste: the inconvenient truth"
* 24 September 2014: Forum on "Setting the vision for smart sustainable cities"
* 25 September 2014: Forum on “Using EMF to achieve the smartest sustainable city”
* 26 September 2014: Regional meeting of ITU-T Study Group 5 Regional Group for Asia and the Pacific (SG5 RG-AP)

The Green Standards Week acts as global platform for discussion and knowledge-sharing in order to raise awareness of the importance and opportunities of using ICT to build a green economy and ensure a sustainable future.

The Green Standards Week will bring together leading specialists in the field, from top policy-makers to engineers, designers, smart city planners, government officials, regulators, standards experts and others.

Action Item 73-13: TSB

Action Item 73-14: ITU Secretary-General

Action Item 73-15: TSB

TSB and ITU SG5 are collaborating closely with UNEP, UNU, UNESCO, UNFCCC, Un-Habitat, WMO and WHO.

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# Resolution 74 - Admission of Sector Members*\** from developing countries in the work of the ITU Telecommunication Standardization Sector

**Resolution 74**

resolves

to encourage the adoption of the necessary measures to enable new members from developing countries to join ITU‑T and to be entitled to take part in the work of the ITU‑T study groups and other groups within ITU‑T, taking into consideration levels of financial contributions equal to those applied for developing countries for admission to the study groups in the ITU Telecommunication Development Sector (ITU‑D).

*\** Such Sector Members from developing countries shall not be affiliated in any way to any Sector Member of a developed country, and shall be limited to those Sector Members of developing countries (including the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition) having an income per capita according to the United Nations Development Programme not exceeding a threshold to be determined.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [74-01](#Item74_01) | Director to bring the addition of ‘landlocked developing countries’ in Resolution 74 to the attention of Council | Council 2013 |  | √ |

Action Item 74-01: TSB

The needs of Sector Members from developing countries (including the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition) have been brought to the attention of the Council Working Group on Financial and Human Resources (CWG-FHR).

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# Resolution 75 - The ITU Telecommunication Standardization Sector’s contribution in implementing the outcomes of the World Summit on the Information Society

**Resolution 75**

resolves

1 to continue ITU‑T's work on WSIS implementation and follow-up activities within its mandate;

2 that ITU‑T should carry out those activities that come within its mandate and participate with other stakeholders, as appropriate, in the implementation of all relevant action lines and other WSIS outcomes,

3 that the relevant ITU-T study groups should consider in their studies the output of the Council Working Group on international Internet-related public policy issues,

instructs the Director of the Telecommunication Standardization Bureau

1 to provide WG-WSIS with a comprehensive summary of ITU-T activities on implementation of the WSIS outcomes;

2 to ensure that concrete objectives and deadlines for WSIS activities are developed and reflected in the operational plans of ITU-T in accordance with Resolution 140 (Rev. Guadalajara, 2010);

3 to provide information on emerging trends based on ITU-T activities;

4 to take appropriate action to facilitate the activities for implementation of this resolution,

invites Member States and Sector Members

1 to submit contributions to relevant ITU‑T study groups and to the Telecommunication Standardization Advisory Group, where appropriate, and contribute to WG-WSIS on implementing WSIS outcomes within the ITU mandate;

2 to support and collaborate with the Director of TSB in implementing relevant WSIS outcomes in ITU‑T,

invites Member States

to submit contributions to the Council Working Group on international Internet-related public policy issues.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [75-01](#Item75_01) | Study Groups carry out activities to implement WSIS outcome and consider in their studies the output of CWG-Internet | Ongoing | √ |  |
| [75-02](#Item75_02) | Director to provide CWG-WSIS a comprehensive summary of ITU-T activities on implementation of the WSIS outcome | Ongoing | √ |  |
| [75-03](#Item75_03) | Director to ensure concrete objectives and deadlines for WSIS activities in ITU-T operational plan. | Ongoing | √ |  |

Action Item 75-01: SGs

ITU-T’s work contributes to the implementation of these ITU mandates, and in particular to Action Lines C2, C5 and C7 (e-environment).

Action Item 75-02: TSB

The WSIS Forum 2013 was held 13-17 May 2013 in Geneva. ITU-T has played a leading collaborating role in the preparation of WSIS+10 visioning interactive session, WSIS Action Line C2 Facilitation Meeting and thematic workshops on Infrastructure Broadband Backbone Connectivity, Climate Change, ICT innovation, and Accessibility.

Among the Accessibility events of WSIS Forum 2013, TSB led two out of the three thematic workshops:

* Wednesday 15 May 2013, *ICT Apps for Persons with Disabilities* (ITU / Informatici Senza Frontiere/Computer Scientists with no Borders)
* ''ERICA: Electroencephalographic-based Resuscitaio Index Computer Aided (University of Padua, Italy/Daccapo / Faber Libertas'').

Moreover TSB contributed to the planning and the organization of the ITU panel of *Towards a Disability Inclusive Development Agenda with ICTs (ITU)* Wednesday 15 May 2013,

In 2014 a WSIS+10 High-Level Event will be an extended version of the annual WSIS Forum. It will review the WSIS Outcomes (2003 and 2005) related to the WSIS Action Lines with the view of developing proposals on a new vision beyond 2015, potentially including new targets. The WSIS+10 High-Level Event will be held on 10-13 June 2014 to endorse two important outcome documents: a "WSIS+10 Statement on Implementation of WSIS Outcomes"; and a "WSIS+10 Vision for WSIS Beyond 2015". Preparation of this event has been through the WSIS+10 Multistakeholder Preparatory Platform (MPP) since July 2013 where ITU-T has participated actively.

Action Item 75-03: TSB

The ITU-T operational plan contains a chapter on WSIS.

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# Resolution 76 - Studies related to conformance and interoperability testing, assistance to developing countries, and a possible future ITU mark programme

**Resolution 76**

resolves

1 that ITU‑T study groups develop the necessary conformance testing Recommendations for telecommunication equipment as soon as possible;

2 that ITU-T Study Group 11 coordinate the Sector’s activities related to the ITU C&I programme across all study groups and review the recommendations in the Conformance and Interoperability Business Plan for the long-term implementation of the C&I programme;

3 that ITU‑T Recommendations to address interoperability testing shall be progressed as quickly as possible;

4 that ITU‑T, in collaboration with the other Sectors as appropriate, shall develop a programme to:

i) assist developing countries in identifying human and institutional capacity-building and training opportunities in conformance and interoperability testing;

ii) assist developing countries in establishing regional or subregional conformance and interoperability centres suitable to perform conformance and interoperability testing as appropriate encouraging cooperation with governmental and non-governmental, national and regional organizations and international accreditation and certification bodies;

5 that conformance and interoperability testing requirements shall provide for verification of the parameters defined in the current and future ITU‑T Recommendations as determined by the study groups developing the Recommendations, and for interoperability testing to ensure interoperability taking into account user needs and in consideration of the market demand, as appropriate,

instructs the Director of the Telecommunication Standardization Bureau

1 in cooperation with the Radiocommunication Bureau and the Telecommunication Development Bureau (BDT), to continue to conduct as necessary exploratory activities in each region in order to identify and prioritize the problems faced by developing countries related to achieving interoperability of telecommunication/ICT equipment and services;

2 in cooperation with the Director of BDT, based on results of *instructs the* *Director of the Telecommunication Standardization Bureau*1 above, to implement the action plan agreed by the Council at its 2012 session (Document C12/91) as referred to in the Report by the Secretary-General to the 2012 session of the Council (Document C12/48);

3 in cooperation with the Director of BDT to implement an ITU conformance and interoperability programme for possible introduction of an ITU Mark in alignment with the Council 2012 decision in C12/91;

4 to involve experts and external entities as appropriate;

5 to submit the results of these activities to the Council for its consideration and required actions,

instructs the study groups

1 to identify as soon as possible existing and future ITU‑T Recommendations that would be candidates for conformance and interoperability testing, taking into account the needs of the membership (e.g. interoperability of next-generation network (NGN) and future network (FN) equipment, terminals, audio/video codecs, access and transport network, other key technologies), that are capable of providing end-to-end interoperable services on a global scale, adding to their content, if necessary, specific requirements within their scope;

2 to prepare the ITU‑T Recommendations identified in *instructs the study groups* 1 above, with a view to conducting conformance and interoperability tests as appropriate;

3 to cooperate, as appropriate, with interested stakeholders to optimize studies to prepare test specifications especially for those technologies in *instructs the study groups* 1 above, taking into account user needs and in consideration of the market demand for a conformity assessment programme,

invites the Council

to consider the Director's report referred to in i*nstructs the Director of the Telecommunication Standardization Bureau* 5 above,

invites Member States and Sector Members

1 to contribute to the implementation of this resolution;

2 to encourage national and regional testing entities to assist ITU‑T in implementing this resolution.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [76-01](#Item76_01) | ITU T SGs to develop the necessary conformance testing Recommendations for telecommunication equipment as soon as possible | Ongoing |  |  |
| [76-02](#Item76_02) | Study groups to identify existing and future ITU-T Recommendations that would be candidates for conformity and interoperability testing | Ongoing |  |  |
| [76-03](#Item76_03) | Study groups, in cooperation with other entities as appropriate, to prepare test specifications for those key technologies identified by [76-02](#Item76_01) | Ongoing | √ |  |
| [76-04](#Item76_04) | SG11 to coordinate the Sector’s activities related to the ITU C&I programme across all SGs and review the recommendations in the Conformance and Interoperability Business Plan for the long-term implementation of the C&I programme  | Ongoing | √ |  |
| [76-05](#Item76_05) | Director, in cooperation with BR and BDT Dirs, to continue to conduct exploratory activities in each region to identify and prioritize the problems faced by developing countries related to interoperability of telecommunication/ICT equipment and services | Ongoing | √ |  |
| [76-06](#Item76_06) | Director, in cooperation with BDT Dir, to implement the ITU C&I action plan  | Ongoing | √ |  |
| [76-07](#Item76_07) | Director, in cooperation with BDT Dir, to implement the ITU C&I programme for possible introduction of an ITU Mark in alignment with Council 2012 decision | Ongoing | √ |  |
| [76-08](#Item76_08) | Director to identify and involve experts and external entities  | Ongoing | √ |  |
| [76-09](#Item76_09) | Director, in collaboration with other Sectors, develop a programme to assist developing countries in identifying capacity-building and training opportunities | Ongoing | √ |  |
| [76-10](#Item76_10) | Director, in collaboration with other Sectors, develop a programme to assist developing countries in establishing conformity and interoperability centres | Ongoing | √ |  |
| [76-11](#Item76_11) | Director to report C&I activities to Council |  Ongoing  | √ |  |

Action Item 76-01: SGs

* SG11 developed conformance test specifications for SIP protocol and the set of ICT services which are based on IMS platform (e.g. TIP/TIR, OIP/OIR, etc.) – Rec. ITU-T Q.3946, Q.3942.1, series Rec. ITU-T Q.3943.1-3.
* SG11 started a new work item “Unified methodology of Internet speed quality measurement usable by end-users on the fixed and mobile networks” (November 2013).
* SG11 started discussion on the development of test specifications for IMS-NNI.
* SG2 started developing test specifications for Rec. ITU-T M.3170.
* SG16 has developed many specifications to assist developers in checking compliance to ITU-T Recommendations, in particular for IPTV systems, voice compression and video compressions.
* SG16 approved H.810 “Interoperability design guidelines for personal health systems” and is working on a set of new ITU Recommendations H.820-H.849 “Interoperability compliance testing of personal health systems (HRN, PAN, LAN and WAN)”
* SG5 developed resistibility tests for telecommunication equipment (Rec. ITU-T K.44) and test specifications related to universal charge adapter (Rec. ITU-T L.1005). SG5 is working on some new Recommendations related to electromagnetic disturbance and etc. (Recs. ITU-T K.60, K.84).
* SG12 developed test specifications for the universal wired headset (Rec. ITU-T P.381). SG12 is working on the conformance test specifications for voice over IP transmission quality (Rec. ITU-T P.564).
* SG15 is working on conformance and interoperability test plans for OMCI-EPON (Rec. ITU-T G.9801 Impl. Guide).
* SG17 provided extensive information to SGs, and Q12/17 offered assistance to other Qs or SGs on principles and methodologies for interoperability testing to assist in supporting Res. 76. This work was transferred to SG11.
* TTCN-3 Recommendations are continually updated in Q12/17.

Action Item 76-02: SGs

The [Joint Coordination Activity on C&I testing (JCA-CIT)](http://www.itu.int/en/ITU-T/jca/cit/Pages/default.aspx), under the leadership of SG11, will support the coordination of ITU’s C&I activities while also acting as the first point of contact for organizations interested in contributing to this work.

The JCA-CIT (25 April 2013) meeting agreed that taking into account the ICT market needs and that ITU Recommendations cover different areas, the scope of conformity assessment should be extended to include the conformity assessment of ICT equipment, services, benchmarking and QoS/QoE. JCA-CIT is encouraging the related SGs to start and develop new work items on the conformity assessment of ICT's equipment, Telecommunication Services, system/network/equipment performance and QoS/QoE.

Action Item 76-03: SGs

Some ITU-T SGs identified test specifications as indicated in the relevant living lists (see action item 76-04), some are aligned with test specifications of other SDOs/Forums/Consortia.

Action Item 76-04: SG11

ITU-T SG 11 approved on 1 March 2013 an action plan to drive its C&I Programme and has revamped the [Joint Coordination Activity](http://www.itu.int/en/ITU-T/jca/cit/Pages/default.aspx) which marshals C&I work undertaken across ITU’s various expert groups.

ITU-T SG 11 started a new work item ‘Technical Report on Counterfeit Equipment’. A workshop on this topic is being planned for Nov 2014.

SG11 developed and maintains:

* a living list of ITU-T Recommendations and related specifications within key technologies suitable for C&I testing. This list is revised by each SG11 meeting based on updates from SGs (<http://itu.int/go/key-technologies>).
* a reference table of ITU-T Recommendations and corresponding Test Specifications used for C&I testing (<http://itu.int/go/reference-table>).
* a living list of conformity assessment pilot projects against ITU-T Recommendations (<http://itu.int/go/pilot-projects>).

Action Item 76-05: TSB

The SG11 meeting in February 2013 discussed the technologies which are suitable for conformity and interoperability testing and might be interesting for different regions. Several testing laboratories from different regions (Austria, Italy, Kazakhstan, Ukraine, Sweden, Brasilia and Russia) showed interest to cooperate with TSB on C&I issues.

Action Item 76-06:TSB

Under Pillar 2 of the ITU-T C&I Programme, TSB conducts interoperability events at the request of ITU members:

* [APT/ITU Conformance and Interoperability event of IPTV and UNI NGN](http://www.itu.int/en/ITU-T/C-I/interop/Pages/CI_APT_event_Sept_13.aspx) (Bangkok, Thailand 9-10 September 2013)
* [Joint ITU/Continua Health Alliance Interoperability event on e-health](http://www.itu.int/en/ITU-T/C-I/interop/e-health/201310/Pages/default.aspx) (Geneva, Switzerland, 28-31 October 2013)
* [Test event on performance assessment of vehicle-mounted mobile phones in conjunction with Hands-free Terminals according to Recommendations ITU-T P.1100 and ITU-T P.1110](http://www.itu.int/en/ITU-T/C-I/Pages/test_event_Feb14.aspx) (Geneva, Switzerland,12 to 16 May 2014)

TSB maintains the ITU [C&I portal](http://www.itu.int/en/ITU-T/C-I/Pages/default.aspx), which is used as an instrument for publishing the latest result on ITU C&I Programme, especially the C&I related documents, events, Databases and the relevant Living lists.

Action Item 76-07: TSB

SG11 established a new work item [Q.TL-rec-pro “Testing Laboratories recognition procedure”](http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=9971) and a Correspondence Group (CG) on ‘collaboration between ITU-T and testing laboratories for ITU C&I programme’ aiming to discuss a proposal ([C97](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T13-SG11-C-0097)) to establish an ITU recognition procedure of testing laboratories with a competence in ITU-T Recommendations.

Action Item 76-08: TSB

ITU signed a MoU with the International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC) that will bring benefit to the C&I programme.

TSB had some consultations with IEC secretariat concerning usages of IEC conformity assessment approaches for the implementation of C&I Programme and is exploring the possibility of joint ITU-IEC conformity assessment programme to ‘piggyback’ ITU conformity assessment program to the related IECEE Scheme.

TSB Director met with ILAC and IAF chairman (April 2013) The TSB Director visited ANSI in Dec 2013 and invited ANSI to consider increased collaboration with ITU as some ANSI accredited test centres have been accredited to test ITU-T standards, such as involving these test centres in the ITU C&I Programme, and providing training and capacity building.

The ITU Secretariat shared the progress report of ITU’s C&I Programme with relevant international bodies in the field of conformity assessment such as IEC, ISO, ILAC and IAF.

Action Item 76-09: TSB

The TSB and BDT continue to collaborate with national and international organizations that can assist in capacity building in developing countries to train technical staff and policy makers on various aspects of interoperability testing, conformance testing and laboratory accreditation.

The TSB and BDT organized C&I training courses, workshops and forums possibly back to back with events of the regional organizations.

Action Item 76-10: TSB

The ITU Secretariat signed MoUs for collaboration for the implementations of the C&I programme with CERT (Research and Studies Telecommunication Center, Tunisia), CPqD (Brazil), Sintesio (Slovenia), Tilab (Telecom Italia) and ZNIIS (Russia).

Action Item 76-11: TSB

Updates on conformance and interoperability are contained in Council document [C14/24Rev.1](https://www.itu.int/md/dologin_md.asp?lang=en&id=S14-CL-C-0024!R1!MSW-E).

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# Resolution 77 - Standardization work in the ITU Telecommunication Standardization Sector for software-defined networking

**Resolution 77**

resolves to instruct ITU-T Study Group 13

1 to organize the necessary structures within Study Group 13 to expand and accelerate the work on SDN architecture and requirements, starting with its first meeting in the next study period;

2 to make recommendations to the Telecommunication Standardization Advisory Group on how to address the topics that are outside the mandate of Study Group 13,

instructs the Telecommunication Standardization Advisory Group

to examine the matter, consider the input of Study Group 13 and other relevant study groups and take the necessary actions, as appropriate, with a view to deciding on the necessary SDN standardization activities in ITU‑T, with the following actions:

• identify the relevant study group(s) in which to follow up actions and establish a suitable organizational arrangement on SDN;

• coordinate the work on technical issues of SDN across the study groups according to their areas of expertise;

• promote collaboration with other SDN-related standards bodies and forums;

• define a clear strategic vision for SDN standardization and an important active role that ITU‑T should play,

instructs the Director of the Telecommunication Standardization Bureau

1 to provide the necessary assistance with a view to expediting such efforts, in particular using any opportunity within the allocated budget to exchange opinions with the telecommunication/ICT industry including through the chief technology officer (CTO) meetings (under Resolution 68 (Rev. Dubai, 2012) of this assembly) and in particular to promote participation of the industry in SDN standardization work in ITU‑T;

2 to organize a workshop on SDN in 2013 in order to promote SDN within ITU-T,

invites Member States, Sector Members, Associates and academia

to submit contributions for developing SDN standardization in ITU‑T.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [77-01](#Item77_01) | SG13 to organize the necessary SG13 structure to expand and accelerate work on SDN architecture and requirements | March 2013 |  | √ |
| [77-02](#Item77_01) | SG13 to recommend to TSAG on how to address SDN topics outside SG13 mandate | March 2013 |  | √ |
| [77-03](#Item77_01) | TSAG to decide the SDN standardization activities in ITU-T | June 2013 |  | √ |
| [77-04](#Item77_04) | Director to assist the exchange of opinions in CTO meetings and to promote SDN standardization work in ITU-T | Ongoing | √ |  |
| [77-05](#Item77_05) | TSB to organize a SDN workshop in 2013  | 4 June 2013 |  | √ |

Action Item 77-01 to 77-03: SG13, SG 11 and TSAG

ITU’s standardization work on SDN started in [ITU-T Study Group 13](http://www.itu.int/en/ITU-T/about/groups/Pages/sg13.aspx) – Future networks including cloud computing, mobile and next-generation networks. SG13 standardizes SDN’s functional requirements and architectures, spread in seven Questions dealing with SDN, and SG11 thus works closely and in parallel with SG13 for developing SDN’s signalling requirements and protocols.

SG 11’s recent meeting in Geneva received Contributions calling for new SDN work items, including:

* Scenarios and signalling requirements for software-defined BAN (SBAN)
* Framework of signalling for SDN
* Scenarios and signalling requirements of unified intelligent programmable interface for IPv6

A meeting of SG 11 was held in Uganda, 6-15 November 2013, in collocation with SG 13, to strengthen the collaboration between these groups.

SG13 provided its views to the last TSAG meeting on how the work on SND should be addressed in our SGs.

The last TSAG meeting assigned SG13 as a lead SG on SDN and set up the JCA-SDN that has two meetings to date and started the roadmap colleting the SDN related outputs inside and outside ITU.

Taking advantage of the co-location of its meetings, Qs 2/13, 14/13 and 4/11, 6/11 regularly hold joint sessions to share the information about the work on SDN in each SG.

The first SG13 Recommendation on framework of SDN, ITU-T Y.3300, has entered the AAP Additional Review on 16 April 2014.

Action Item 77-04: TSB

The CTO meeting held in Thailand in November 2013 noted the work progressing on SDN and related technical topics. Opinions were exchanged and it was felt that the work is progressing steadily in a promising direction.

Action Item 77-05: TSB

A [workshop session on SDN](http://www.itu.int/md/T13-TSAG-COL-0001/en) and its standardization landscape took place on 4 June 2013 during TSAG.

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# Resolution 78 - Information and communication technology applications and standards for improved access to e-health services

**Resolution 78**

resolves to instruct the Director of the Telecommunication Standardization Bureau, in collaboration with the Director of the Telecommunication Development Bureau and the Director of the Radiocommunication Bureau

1 to consider with priority the enhancement of telecommunication/ICT initiatives in e‑health and to coordinate their related standardization activities;

2 to continue and further develop ITU activities on telecommunication/ICT applications for e-health in order to contribute to the wider global efforts concerning e-health;

3 to work collaboratively with WHO, academia and other relevant organizations on activities related to e-health;

4 to study the possibility of organizing a global conference in 2013 or 2015 for the standardization of e-health applications and uses of e-health protocols, in collaboration with WHO and other interested parties;

5 to organize seminars and workshops on e-health for developing countries[[13]](#footnote-14)1 and gauge the needs of the developing countries, which are the countries with the greatest need for e-health applications,

instructs ITU-T Study Group 16, in collaboration with the relevant study groups, particularly ITU-T Study Groups 11 and 17

1 to identify and document examples of best practice for e-health in the field of telecommunications/ICT, for dissemination among ITU Member States and Sector Members;

2 to coordinate activities and studies relating to e-health among the relevant study groups, focus groups and other relevant groups in ITU-T, the ITU Radiocommunication Sector (ITU-R) and ITU‑D, in order in particular to foster awareness of telecommunication/ICT standards pertaining to e-health;

3 to study communication protocols relating to e-health, especially among heterogeneous networks, for ensuring the broad deployment of e-health services in diverse operating conditions;

4 within the current mandate of the ITU-T study groups, to give priority to the study of security standards (e.g. for communications, services, network aspects and service scenarios for databases and record handling, identification, integrity and authentication) relating to e-health, taking into account *recognizing a)*,

invites Member States

to consider, as appropriate, the development and/or enhancement of frameworks which may include legislation, regulations, standards, codes of practice and guidelines to enhance the development of telecommunication/ICT services, products and terminals for e-health and e-health applications, within the scope of Resolution 130 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference,

encourages Member States, Sector Members and academia

to participate actively in ITU-T studies on e-health, through the submission of contributions and by other appropriate means.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [78-01](#Item78_01) | TSB Dir, in collaboration with BDT and BR Dirs, to develop ITU e-health activities | Ongoing | √ |  |
| [78-02](#Item78_02) | TSB Dir, in collaboration with BDT and BR Dirs, to study the possibility of a global conference in 2013 or 2015 on e-health standardization, in collaboration with WHO, etc | Ongoing |  |  |
| [78-03](#Item78_03) | TSB Dir, in collaboration with BDT and BR Dirs, to organize e-health seminars and workshops for developing countries and gauge their needs for e-health | Ongoing | √ |  |
| [78-04](#Item78_04) | SG16, in collaboration with relevant SGs, particular SG11 and SG17, to identify, document and disseminate e-health best practices for ITU membership | Ongoing | √ |  |
| [78-05](#Item78_05) | SG16, in collaboration with relevant SGs, particular SG11 and SG17, to study communication protocols relating to e-health | Ongoing | √ |  |
| [78-06](#Item78_06) | SG16, in collaboration with relevant SGs, particular SG11 and SG17, to give priority to study of security standards relating to e-health | Ongoing | √ |  |

Action Item 78-01, 78-03: TSB

Organized ITU workshop in Tokyo, Japan, 4-5 February 2013 on "E-health services in low-resource settings: Requirements and ITU role"[[14]](#footnote-15).

Action Item 78-02: TSB

Action Item 78-04: SG16, SG11 and SG17

Q9/17 works in collaboration with SG16, ITU-D, ISO TC 12, IEC TC 25 and WHO to identify and to document examples of best practice for e-health in the field of telecommunication/ICT, for dissemination among ITU Member States and Sector Members.

Q9/17 collaborates with relevant study groups, focus groups and other relevant groups in ITU-T, the ITU Radiocommunication Sector (ITU-R) and ITU-D, in order to foster awareness of telecommunication/ICT standards pertaining to e-health.

SG17 consented ITU-T X.1092 on “Integrated framework for telebiometric data protection in e-health and telemedicines”.

Action Item 78-05: SG16, SG11 and SG17

Two new Recommendations were approved in ITU-T SG16 (2013-01), ITU-T H.860 (ex H.MEDX) "Multimedia e-health data exchange services: data schema and supporting services"[[15]](#footnote-16) and ITU-T H.810 (ex H.IDGPHS) "Interoperability design guidelines for personal health systems"[[16]](#footnote-17). The latter is the transposition of the Continua Design Guidelines. Work has also started on 32 new specifications that will help with C&I testing of ITU-T H.810 implementations[[17]](#footnote-18); these are also a transposition of the test suites developed and used by the Continua Health Alliance in its interoperability testing programme and events. One related interop event was hosted by ITU-T in October 2013. A revised version of ITU-T H.810 is also planned for Consent in February 2015.

ITU-T SG13 approved ITU-T Y.2065 (2014-03) on IoT-centric service and capability requirements for e-health monitoring services[[18]](#footnote-19). A capability framework for e-health monitoring services is being studied under Y.EHM-cap-framework[[19]](#footnote-20), which is expected to be completed in 2015.

Q9/17 collaborates with SG11 to study communication protocols relating to e-health, especially among heterogeneous networks, to ensure the broad deployment of e-health services in diverse operating conditions.

SG17 approved ITU-T [X.1080.1](http://www.itu.int/ITU-T/recommendations/rec.aspx?rec=11384), on “e-Health and world-wide telemedicines - Generic telecommunication protocol.

Action Item 78-06: SG16, SG11 and SG17

ITU-T H.810 "*Interoperability design guidelines for personal health systems*"16 contains security considerations on the use of personal health devices.

Q9/17 develops Recommendations related to security of e-health services, (e.g., for communications, services, network aspects and service scenarios of databases and record handling, identification, integrity and authentication) relating to e-health, taking into account the importance of safeguarding patients’ rights and privacy.

SG17 approved X.1092 "*Integrated framework for telebiometric data protection in e-health and telemedicines*" in April 2013.

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# Resolution 79 - The role of telecommunications/ information and communication technology in handling and controlling e-waste from telecommunication and information technology equipment and methods of treating it

**Resolution 79**

resolves to instruct the Director of the Telecommunication Standardization Bureau, in collaboration with the Director of the Telecommunication Development Bureau

1 to pursue and strengthen the development of ITU activities in regard to handling and controlling e-waste from telecommunication and information technology equipment and methods of treating it;

2 to assist developing countries to undertake proper assessment of the size of e-waste;

3 to address the handling and controlling of e‑waste and to contribute to global efforts designed to deal with the increasing hazards which arise therefrom;

4 to work in collaboration with the relevant stakeholders, including academia and relevant organizations, and to coordinate activities relating to e-waste among the ITU study groups, focus groups and other relevant groups;

5 to organize seminars and workshops to enhance awareness of the hazards of e-waste and the methods of treating it, particularly in developing countries, and gauge the needs of the developing countries, which are the countries that suffer most from the hazards of e-waste,

instructs ITU-T Study Group 5, in collaboration with the relevant ITU study groups

1 to develop and document examples of best practice for handling and controlling e-waste resulting from telecommunications/ICT and methods of treating and recycling it, for dissemination among ITU Member States and Sector Members;

2 to develop Recommendations, methodologies and other publications relating to handling and controlling e-waste resulting from telecommunications/ICT and methods of treating it, within the relevant study groups, focus groups and other relevant groups in ITU, in order, in particular, to foster awareness of the environmental hazards of e-waste;

3 to study the impact of used telecommunication/ICT equipment and products brought into developing countries and give appropriate guidance, taking into account *recognizing further* above, to assist developing countries,

invites Member States

1 to take all necessary measures to handle and control e-waste in order to mitigate the hazards which can arise from used telecommunication/ICT equipment;

2 to cooperate with each other in this area;

3 to include e-waste management policies in their national ICT strategies,

encourages Member States, Sector Members and academia

to participate actively in ITU-T studies on e-waste, through the submission of contributions and by other appropriate means.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| [79-01](#Item79_01) | TSB Dir, in collaboration with BDT Dir, to develop ITU activities to handle, control and treat e-waste of telecommunication and IT equipment | Ongoing | √ |  |
| [79-02](#Item79_02) | TSB Dir, in collaboration with BDT Dir, to assist developing countries to undertake proper assessment of the size of e-waste | Ongoing |  |  |
| [79-03](#Item79_03) | TSB Dir, in collaboration with BDT Dir, to organize seminars and workshops for developing countries and gauge their needs for e-waste | Ongoing | √ |  |
| [79-04](#Item79_04) | SG5, in collaboration with relevant SGs, to identify, document and disseminate e-waste best practices for ITU membership | Ongoing | √ |  |
| [79-05](#Item79_05) | SG5, in collaboration with relevant SGs, to develop Recommendations, methodologies and other publications on e-waste | Ongoing | √ |  |
| [79-06](#Item79_06) | SG5, in collaboration with relevant SGs, to study the impact of telecom/ICT e-waste to developing countries and give guidance to assist developing countries | Ongoing | √ |  |

Action Item 79-01: TSB and SG5

Action Item 79-02: TSB and SG5

Action Item 79-03: TSB and SG5

At the kind invitation of the Department of Communications of South Africa, ITU organized a one-day workshop on “Environmentally Sound Management of E-waste” at the International Convention Centre in Durban, South Africa on 9 July 2013.

The key objective of the workshop was to provide an overview of best practices on policies, regulations and international standards for improving e-waste management. The workshop discussed how WEEE has a negative impact on the environment and human health, but provided opportunities to create green jobs, curb health problems, cut greenhouse gas emissions as well as economic incentives for recovering valuable metals from redundant, excessive or end-of-life ICTs.

ITU organized a workshop on Environmentally Sound Management of E-waste in Latin America that took place on 13-14 August 2013, in Quito, Ecuador.

The e-waste workshop kindly hosted by Telefónica, aimed at identifying major challenges and strategies associated with the management of e-waste in Latin America under the policy principle of Extended Producer Responsibility and the implementation of international standards. The workshop will facilitate discussion among original equipment manufacturer (OEM), recycling companies, producer responsibility organizations (PRO), government authorities and academia enabling analysis of existing experiences and identification of suitable approaches to deal with challenges, including exploring the potential of regional solutions and the role of public-private partnerships.

ITU, UNEP, UNU, CEDARE organized a Forum on “What Are the Next Steps on E-waste Resources ?” that took place on 16 September 2013 as part of the 3rd Green Standards Week.

There have been alarming reports of e-waste mismanagement in many countries, particularly in less developed nations and countries with economies in transition. E-waste is a significant contributor to the ICT industry’s impact on the environment, and urgent global action to address this issue is essential if the industry is to fulfil its commitment to a sustainable future.

This Forum provided a global platform to discuss possible next steps on e-waste.

A one-day workshop on “Environmentally Sound Management of E-waste”, jointly organized by the International Telecommunication Union (ITU) and CITEL took place in Mendoza, Argentina on 9 October 2013 followed by first meeting of the ITU-T Study Group 5 Regional Group for the Americas (SG5 RG-AMR) that took place on 9 October 2013. The workshop provided an overview of best practices on policies, regulations and international standards for improving e-waste management.

At the kind invitation from the government of Uruguay, ITU and the United Nation Education Scientific and Cultural Organization (UNESCO) jointly organized a series of events dedicated to the overarching theme of "Smart Sustainable Cities". These series of events took place in Montevideo, Uruguay, from 11-14 March with an agenda to further crucial themes including smart sustainable cities, e-waste management, human exposure to electromagnetic fields and the collaboration with Academia. These events brought together leading specialists in the field, from top policy-makers to engineers, designers, planners, government officials, regulators, academia, standards experts and others.

**Upcoming events:**

A Forum on "E-waste: the inconvenient truth" will take place on 23 September 2014 as part of the 4th Green Standards Week.

Action Item 79-04: SG5

SG5 is developing also a series of best practices on e-waste management.

Action Item 79-05: SG5

SG5 developed several Recommendations aimed at reducing e-waste. These are namely:

* ITU-T L.1000: Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices
* ITU-T L.1001: External universal power adapter solutions for stationary information and communication technology devices
* ITU-T L.1010: Green batteries solution for mobile phones and other hand-held information and communication technology devices
* ITU-T L.1100: Procedure for recycling rare metals in information and communication technology goods
* ITU-T L.1101: Measurement methods to characterize rare metals in information and communication technology goods

Action Item 79-06: SG5

TSB together with ITU-T SG5 developed a Toolkit on End of Life Management which is available at: <http://www.itu.int/dms_pub/itu-t/oth/4B/04/T4B0400000B0013PDFE.pdf>

TSB also developed a flyer on e-waste which is available at: <http://www.itu.int/oth/T0B04000052/en>

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# Resolution 80 - Acknowledging the active involvement of the membership in the development of ITU Telecommunication Standardization Sector deliverables

**Resolution 80**

resolves

that it is important to acknowledge significant contributors to the work of ITU-T,

instructs the Director of the Telecommunication Standardization Bureau

to acknowledge the value of active participation of the membership, in particular academia, universities and their associated research establishments, in the standardization activities of ITU, by collaborating closely with Member States and their respective bodies that formulate public policies in areas such as education, science and technology and industry and commerce in order to highlight the importance of contribution to ITU-T study group deliverables,

instructs the Telecommunication Standardization Advisory Group

1 to study options on how to clearly acknowledge significant contributors to the development of study group deliverables;

2 to define, in consultation with the ITU membership, objective criteria that will guide study groups in identifying such significant contributors,

invites Member States

to consider, as appropriate, the participation of academia in the ITU‑T contribution process and to provide visibility and acknowledgment of their contributions, editorships and other outputs so that they may be considered as eligible activities for research and development productivity evaluation.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| 80-01 | Director to collaborate with Member States to acknowledge the value of active membership participation and contribution to ITU-T SG deliverables | Ongoing |  |  |
| 80-02 | TSAG to study options on how to clearly acknowledge significant contributor | TSAG June 2013 | √ |  |
| 80-03 | TSAG to define objective criteria that will guide study groups in identifying significant contributors | Ongoing |  |  |

Action Item 80-01: TSB

Action Item 80-02: TSAG

After [TSAG-C.18](http://www.itu.int/md/T13-TSAG-C-0018/en), TSAG requested ITU-T SG9 to lead the discussion and coordinate across the various SGs. A report from the SG9 chairman is found in [TD 134/TSAG](http://www.itu.int/md/T13-TSAG-140617-TD-GEN-0134/en) (2014-06).

Action Item 80-03: TSAG

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# Resolution 81 - Strengthening collaboration

**Resolution 81**

resolves

1 that an action plan be developed by TSAG, which will result in:

• the identification of areas where improvement is required, taking into account CTO meeting outcomes and the results of GSS;

• the development of a mechanism within ITU-T to achieve this objective; and

• documentation of the mechanism developed, defining specific steps on how to improve coordination with other relevant standards bodies regarding the development of new Questions that are intended to address new domains and new work items under such Questions;

2thatthis mechanism, which could take the form of a working party or group of TSAG, and which may work additionally between TSAG meetings in order to ensure continuity of the discussions on this topic, should:

• work, as required, including the socialization of ITU-T's desire to work cooperatively with the relevant standards bodies to improve cooperation; and

• provide a report to TSAG, containing the outcome of the actions taken, which will be subsequently submitted to WTSA-16,

invites the Telecommunication Standardization Advisory Group

to establish and maintain a close relationship with the Review Committee in order to develop synergies for the development of Recommendations addressing the objective of strengthening collaboration between ITU-T and other standards bodies.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| 81-01 | TSAG to develop action plan and mechanism, to define steps to improve coordination with other SDOs on the development of new Questions to address new domains and new work items | Ongoing |  |  |
| 81-02 | TSAG to set up a working party or working group to work on this subject and report to TSAG | Ongoing |  |  |
| 81-03 | TSAG to report to WTSA-16 | TSAG 2016 |  |  |

Action Item 81-01 & 81-02: TSAG

TSAG June 2013 set up the “TSAG Rapporteur Group on Strengthening Collaboration”. The group has had the following meetings:

* E-meeting on 17 October 2013
* Face-to-face meeting on 14-15 January 2014
* E-meeting 17 April 2014

The Rapporteur Group has focused on revisiting ITU-T A.4, A.5 and A.6. Numerous contributions regarding ITU-T A.4, A.5 and A.6 have been submitted for the TSAG meeting June 2014.

Action Item 81-03: TSAG

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# Resolution 82 - Strategic and structural review of the ITU Telecommunication Standardization Sector

**Resolution 82**

resolves

to establish, in accordance with Nos 191A and 191B of the Convention, a review committee functioning in accordance with the relevant provisions of Article 14A of the Convention and the procedures provided below, and with the terms of reference as described in Annex A to this resolution, taking account of today’s standardization environment and of the continued evolution of ITU-T;

instructs the Review Committee

1 to report to TSAG on regular basis;

2 to consider the outcomes of the CTO meetings, in particular their reports;

3 to conduct its initial review in a timely manner so as to provide input to TSAG for the preparation of the ITU-T strategic plan;

4 to submit its report to the next WTSA through TSAG,

instructs the Telecommunication Standardization Advisory Group

1 to consider the Review Committee progress reports, and in conformity with Article 14A of the Convention, implement, as appropriate, any recommendations, pending consideration at the next WTSA,

2 to submit the final report of the Review Committee, without changes, to WTSA, together with its comments thereon,

instructs the Director of the Telecommunication Standardization Bureau

1 to support the Review Committee by facilitating the activities in implementing this resolution;

2 to provide fellowships to eligible developing countries.

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| 82-01 | Review Committee to report to TSAG on regular basis | Ongoing | √ |  |
| 82-02 | Review Committee to conduct its initial review so as to input to TSAG for the preparation of the ITU-T strategic plan | Ongoing | √ |  |
| 82-03 | TSAG to consider the Review Committee progress reports, and submit its final report to WTSA-16 | TSAG 2016 |  |  |

Action Item 82-01: Review Committee

The review committee reports to TSAG regularly.

Action Item 82-02: Review Committee

The strategic plan was discussed at the last Review committee meeting (16 and 19 June 2014).

Action Item 82-03: TSAG

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# Opinion 1 - Practical application of network externality premium

**Opinion 1**

*is of the opinion that*

*considering the progress achieved so far within Study Group 3 those Member States concerned may wish to review the respective positions at the WTSA 2008 and possibly withdraw the reservations about Recommendation ITU-T D.156,*

*invites Member States*

*to take all measures necessary for the effective implementation of Recommendation ITU-T D.156,*

*invites the Council*

*in its session of 2013, to report on this subject to the Plenipotentiary Conference 2014, in accordance with Plenipotentiary Resolution 22 (Rev. Antalya, 2006).*

| Action Item | Action | Milestone | Periodic goals met | Completed |
| --- | --- | --- | --- | --- |
| Op-01 | Member States to take all measures necessary for the effective implementation of Recommendation ITU-T D.156 | Ongoing |  |  |
| [Op-02](#ItemOp_02) | Director to invite Council 2013 to consider WTSA-12 Opinion 1 and report on this subject to PP-14 | June 2013 |  | √ |

Action Item Op-02: TSB

Done. The TSB Director reported about Opinion 1 in his WTSA-12 report to Council 2013 ([C13/22](http://www.itu.int/md/S13-CL-C-0022/en)).

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1. <http://itu.int/md/T13-TSB-CIR-0019>. [↑](#footnote-ref-2)
2. 1 These include the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition. [↑](#footnote-ref-3)
3. <http://itu.int/md/T13-TSB-CIR-0019>. [↑](#footnote-ref-4)
4. <http://itu.int/ITU-T/inr/enum/>. [↑](#footnote-ref-5)
5. See Communiqué of the Fifth CTO Meeting, 18 November 2013, Bangkok, Thailand, <http://www.itu.int/en/ITU-T/tsbdir/cto/Documents/131118/CTO%20MEETING%20COMMUNIQU%C3%89%20November%20final.docx> [↑](#footnote-ref-6)
6. 2 Telecommunication relay services enable users of different modes of communication (e.g. text, sign, speech) to interact by providing convergence between the modes of communication, usually through human operators. [↑](#footnote-ref-7)
7. 2 These include the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition. [↑](#footnote-ref-8)
8. 3 Taking into account Resolution 58 (Rev. Guadalajara, 2010) of the Plenipotentiary Conference in regard to the six regional telecommunication organizations, namely: the Asia-Pacific Telecommunity (APT), the European Conference of Postal and Telecommunications Administrations (CEPT), the Inter-American Telecommunications Commission (CITEL), the African Telecommunications Union (ATU), the Council of Arab Ministers of Telecommunication and Information represented by the Secretariat-General of the League of Arab States (LAS), and the Regional Commonwealth in the field of Communications (RCC). [↑](#footnote-ref-9)
9. See <http://itu-kaleidoscope.org/2014>. [↑](#footnote-ref-10)
10. <http://itu.int/en/ITU-T/climatechange/emf-1305>. [↑](#footnote-ref-11)
11. 2 Kyoto, Japan, 15-16 April 2008; London, United Kingdom, 17-18 June 2008; [Quito, Ecuador](http://www.itu.int/ITU-T/worksem/climatechange/200907/index.html), 8‑10 July 2009; Seoul Virtual Symposium, 23 September 2009; Cairo, Egypt, 2-3 November 2010; Accra, Ghana, 7-8 July 2011; Seoul, Republic of Korea, 19 September 2011; and Montreal, Canada, on 29-31 May 2012. [↑](#footnote-ref-12)
12. 3 With respect to efficiency, promotion of efficient use of materials used in ICT devices and network elements should also be a consideration. [↑](#footnote-ref-13)
13. 1 These include the least developed countries, small island developing states, landlocked developing countries and countries with economies in transition. [↑](#footnote-ref-14)
14. <http://itu.int/en/ITU-T/Workshops-and-Seminars/e-Health/201302>. [↑](#footnote-ref-15)
15. <http://www.itu.int/rec/T-REC-H.860>. [↑](#footnote-ref-16)
16. <http://www.itu.int/rec/T-REC-H.810>. [↑](#footnote-ref-17)
17. <http://www.itu.int/itu-t/workprog/wp_search.aspx?sg=16&q=28>. [↑](#footnote-ref-18)
18. <http://newslog.itu.int/archives/431>. [↑](#footnote-ref-19)
19. <http://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=10038>. [↑](#footnote-ref-20)