

# ITU World Telecommunication Standardization Assembly 2020 (WTSA-20) – Summary Issues Matrix

05 April 2022

This chart summarizes the outcomes of WTSA-20 for Internet-related resolutions and recommendations (including new resolutions) in an effort to identify issues, areas of concern, organizations impacted, etc., on a best-efforts basis. The matrix is based on the text available in the draft proceedings of WTSA-20 (see <https://www.itu.int/en/ITU-T/wtsa20/Pages/default.aspx>). While these resolutions influence the Study Groups, the actual work is based on participation and contributions. Note that WTSA-20 was shorter than normal and WTSA-24 is only two years off, so some debates were deferred.

## Key to the matrix tables

<a href="#">WTSA-20 Results: Existing Resolutions</a>
<a href="#">WTSA-20 Results: A-series Recommendations</a>
<a href="#">WTSA-20 Results: New Resolutions</a>

## Regional Proposals are designated by the acronym used by ITU<sup>1</sup>:

- AFCP- African Common Proposals (ATU)
- IAP - Inter-American Proposal (CITEL)
- ACP - Asia-Pacific Common Proposal (APT)
- ARB - Arab States Common Proposal (AST)
- EUR - European Common Proposal (CEPT)
  
- RCC - Regional Commonwealth in the field of Communications (RCC)

## WTSA-20 key Resolutions on Internet issues

- [Internet related public policy issues:](#)
- [Cybersecurity, Confidence and security in the use of ICTs:](#)
- [WSIS+10 and SDGs:](#)
- [Working Methods](#)
- [Access and infrastructure:](#)
- [Emerging technologies \(IoT\):](#)
- [Focus Groups](#)
- [New Resolutions and Questions](#)
- [Index](#)

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<sup>1</sup> The regional organizations responsible for the proposals are designated in parentheses.

## Type Acronyms

ADD	-	New Resolution
MOD	-	Revised Resolution
NOC	-	No Change to Resolution
NA	-	Not Adopted

## WTSA-20 Results - Existing Resolutions

[\(top\)](#)[\(index\)](#)

Type	RES	Title	Contribution Origin Number & Key Points	Comments
<b>Internet related public policy issues:</b> Key resolutions dealing with Internet development, governance, etc. and IP-based networks <a href="#">(top)</a> <a href="#">(index)</a>				
MOD	20	Procedures for allocation and management of international telecommunication numbering, naming, addressing and identification resources	<b>WTSA-20 Outcome:</b> (from IAP/39A11/1, EUR/38A24/1, AFCP/35A2/1, ARB/36A14/1, TSAG C-24 App I)  Summary: <ul style="list-style-type: none"> <li>• Deletes term "NGN"</li> <li>• Clarifies that the resolution applies to telecommunications NNAI.</li> <li>• Adds the Y-series Recommendations to the list of recommendations to consider in deliberations on NNAI.</li> <li>• Deletes reference to Q.708 (SS7 Point codes) and X.121 (X.25 addressing) and adds references to E.164 and E.212 (Telephone numbers and identifiers).</li> <li>• Explicitly references Supplement 3 to the A-series in <i>considering</i>.</li> <li>• invites Member States to share experiences on the implementation of this resolution</li> </ul>	While the revisions of this resolution do not add any new mandate concerning Internet resources and clarifies that the work refers to telecommunications NNAI, the explicit reference to Supp3 to the A-series ("IETF and ITU-T collaboration guidelines") indicates Internet-related issues could be included under this resolution.  The revisions support continued work on the impact of new and emerging technologies on telecommunications NNAI.  The work in this resolution could impact Internet-based telephony providers that use E.164 or E.212 resources.

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
MOD	29	Alternative calling procedures on international telecommunication networks	<p><b>WTSA-20 Outcome:</b> (from RCC/40A27/1, IAP/39A33/1, ARB/36A15/1, EUR/38A27/1, TSAG C-24 App I, AFCP/35A3/1)</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>• Adds reference to Recommendation E.370 on the interconnection of IP-based networks and legacy networks.</li> <li>• instructs ITU-T SG 2 to study the "definition" of alternative calling procedures</li> <li>• instructs SG 2, 3 and 12 to continue collaborating to study issues related to alternative calling procedures.</li> <li>• Adds the preferable option of selective blocking of specific international numbers on a cases-by-case basis by national regulators to the guidelines in the Attachment.</li> </ul>	<p>The revisions to Resolution 29 should not affect the Internet as a whole. The studies mandated under this resolution could affect Internet telephony providers, especially those that interconnect with the legacy telephone system and utilize E.164 and E.212 resources.</p>
MOD	44	Bridging the standardization gap between developing and developed countries	<p><b>WTSA-20 Outcome:</b> (from RCC/40A7/1, IAP/39A18/1, ARB/36A17/1, AFCP/35A8/1)</p> <p>Summary</p> <ul style="list-style-type: none"> <li>• Streamlines references</li> <li>• Highlights the importance of digital transformation</li> <li>• Encourages increased engagement of regions in BSG program and participation of members from developing countries in ITU-T.</li> <li>• Clarifies assistance to developing countries in developing nationally, regionally, and internationally recognized test labs.</li> <li>• Adds reference to new revision of Res. 54 in <i>resolves</i> 4 on regional groups.</li> <li>• Highlights "the importance of coordinating capacity building and assistance initiatives with those implemented by the BDT"</li> <li>• Resolves that ITU regional offices engage in activities "assigned by TSAG" instead of "activities of TSB" concerning the BSG action plan.</li> <li>• <i>Invites</i> Council to consider exempting Academia from developing countries from fees to encourage their participation.</li> <li>• <i>instructs</i> TSB Director to work in close collaboration with ITU Academy and other capacity building initiatives of BDT.</li> <li>• <i>instructs</i> the TSB Director to guarantee equal access and features in accessing ITU electronic meetings.</li> <li>• Encourages election of more candidates from developing</li> </ul>	<p>The revisions to Resolution 44 should not directly affect ITU-T standardization activities related to the Internet; however, it could encourage more capacity building activities in and for developing countries.</p>

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
			<p>countries to TSAG chair and vice-chair positions.</p> <ul style="list-style-type: none"> <li>Encourages more participation of women and girls in standardization activities.</li> </ul>	
MOD	48	Internationalized Domain Names	<p><b>WTSA-20 Outcome:</b> (from EUR/38A7/1, ARB/36A18-R1/1, EUR/38A7/1)</p> <p>Summary</p> <ul style="list-style-type: none"> <li>Only editorial changes.</li> </ul>	Essentially no material change.
NOC	49	ENUM	<p><b>WTSA-20 Outcome:</b></p> <p>No Change</p>	No proposals were made to change this Resolution.
MOD	60	Responding to the challenges of the evolution of the identification/ numbering system and its convergence with IP-based systems/networks	<p><b>WTSA-20 Outcome:</b> (from IAP/39A31/1, EUR/38A22/1, APT/37A12/1, AFCP/35A14/1)</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>Removes references to NGN and FN and retains work on future and emerging telecommunications/ICTs.</li> <li>Clarifies that naming and addressing are included in the work of SG2 in addition to numbering and identification.</li> <li>Clarifies that the studies are scoped to telecommunications/ICTs but doesn't remove IP-based networks from the scope.</li> </ul>	<p>While the revisions remove references to NGN and FN (Future Networks), it retains studies on future and emerging telecommunications/ICTs and retains "IP-based networks" in the scope.</p> <p>The revisions don't mandate any new studies and scopes the work to telecommunications/ICTs; however, work can continue under the current mandate. The work in the Study Groups will be driven by the newly approved Questions, participation and contributions.</p>
MOD	61	Countering and Combatting Misappropriation and Misuse of INRs	<p><b>WTSA-20 Outcome:</b> (from IAP/39A16/1, EUR/38A28/1)</p>	Revisions do not mandate any new work in ITU-T related to the Internet. Internet telephony providers that utilize telecommunications numbering resources (e.g., Rec. E.164, E.212) could be affected.

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
			<p>Summary:</p> <ul style="list-style-type: none"> <li>• Emphasizes the sovereignty of countries and that remediation of misuse and misappropriation of numbering resources is the responsibility of Member States involved.</li> <li>• Adds "operating agencies" to list of entities to collaborate and share information on misuse and misappropriation of numbers.</li> <li>• Clarifies that selective measures (e.g., blocking) on a case-by-case basis are preferable to wholesale blocking of country codes.</li> <li>• adds the case where instances of activities are notified directly with Member States in addition to notification through the ITU.</li> <li>• Attachment: Splits the table between complaints on the origination side and complaints on the origination side.</li> </ul>	
MOD	64	Internet protocol address allocation and facilitating the transition to and deployment of IPv6	<p><b>WTSA-20 Outcome:</b> (from IAP/39A12/1, EUR/38A11/1, APT/37A13/1)</p> <p>Summary</p> <ul style="list-style-type: none"> <li>• Moves focus from the transition from IPv4 to IPv6 to the deployment of IPv6.</li> <li>• Removes <i>resolves</i>1 instructing SG 2 and 3 to monitor and study IP address allocation</li> <li>• Removes transition period in <i>inviting Member States and Sector Members</i> 2 for deploying IPv6 and adds emphasis on collaboration and coordination with international organizations.</li> </ul>	<p>The revisions remove text supporting work in ITU-T on IP address allocation and continues to encourage deployment of IPv6 and supports cooperation with Internet organizations.</p> <p>The removal of a period of transition to IPv6 could affect equipment vendors who have not implemented IPv6, but will probably not have a widespread impact.</p>
NOC	69	Non-discriminatory access and use of Internet resources and telecommunications/information and communication technologies	<p><b>WTSA-20 Outcome:</b></p> <p>No Change.</p>	No changes were proposed for this resolution.

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
<p><b>Key Resolutions dealing with Cybersecurity</b>  <a href="#">(top)</a> <a href="#">(index)</a></p>				
MOD	50	Cybersecurity	<p><b>WTSA-20 Outcome:</b>                      (from RCC/40A8/1, IAP/39A30/1, EUR/38A6/1, ARB/36A19/1, APT/37A8/1, AFCP/35A9/1)</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>• Supports continued development of Recommendations, Supplements and technical reports to keep pace with emerging technologies and which "support cybersecurity procedures, technical policies and standards frameworks."</li> <li>• Supports work in Study Group 17                             <ul style="list-style-type: none"> <li>○ "...to develop cooperative security analysis and incident management frameworks"</li> <li>○ to support the TSB Director in maintaining the ICT Security Standards Roadmap.</li> <li>○ to support joint coordination activities on security "among all relevant study groups and focus groups in ITU and other SDOs;"</li> <li>○ "...to define a general/common set of security capabilities for each phase of information systems/networks/applications lifecycle, so that consequently security by design (security capabilities and features available by design) could be achieved for systems/networks/applications from day one;"</li> <li>○ "...to design security architecture reference framework(s) with security functional components which could be considered as the basis of security architecture design for various systems/networks/applications in order to improve the quality of recommendations on security,"</li> <li>○ on cyber risk management approaches</li> </ul> </li> <li>• instructs the TSB Director to organize "training programmes, forums, workshops, seminars, etc., for policy makers, regulators, operators and other stakeholders, especially from developing countries to raise awareness and identify needs in collaboration with the Director of BDT,"</li> </ul>	<p>Organizations interested in cybersecurity should monitor work in SG17.</p> <p>Supports current work in SG17 as described in the modified charter (Res 2) and the Questions approved at WTSA-20. The actual work in SG17 will be driven by contributions and participation.</p> <p>Expands scope of SG17 into all life cycle phases of almost all information technology markets (information systems/networks/applications).</p> <p>Supports enhanced role of SG17 in work on common security architecture(s) for systems/networks/applications.</p>

## ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
NOC	52	Countering and combating spam	<p><b>WTSA-20 Outcome:</b> (from RCC/40A9/1, EUR/38A12/1, ARB/36A20/1, APT/37A9/1, AFCEP/35A10/1)</p> <p>No Change.</p>	There were numerous proposals for revisions to Res. 52, but WTSA-20 could not reach consensus on any of them.
<b>WSIS+10 and SDGs</b> <a href="#">(top)</a> <a href="#">(index)</a>				
MOD	75	Sustainable Development Goals	<p><b>WTSA-20 Outcome:</b> (from RCC/40A4/1, ARB/36A24/1, EUR/38A4/1)</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>• Mostly editorial changes, updated to reflect the Sustainable Development Goals.</li> </ul>	
<b>Working Methods</b> <a href="#">(top)</a> <a href="#">(index)</a>				
MOD	1	Rules of procedure of the ITU Telecommunication Standardization Sector	<p><b>WTSA-20 Outcome:</b> (from RCC/40A5/1, CAN/USA/45/1, EUR/38A20-R1/1, EUR/38A3/1, ARB/36A1/1, APT/37A1/1, TSAG (C-24 App I))</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>• Incorporates changes proposed by TSAG in C-24 Appendix I.</li> <li>• Section 1.1 is extensively modified to explicitly enumerate the work of WTSA; basically, describing current operation.</li> <li>• 1bis.5: <ul style="list-style-type: none"> <li>○ The NOTE to 1bis.5.1 on Recommendations adds the text "which is a normative text" implying that ITU-T Recommendations are normative.</li> <li>○ The approval process for AAP is changed to a reference to Recommendation A.8. TAP is retained in Res. 1 (Section 9).</li> </ul> </li> </ul>	<p>Resolution 1 concerns internal operation of the ITU-T and thus has no direct impact on the Internet; however, changes in procedure of the ITU-T affect what work is done in ITU-T and how members can affect that work. Thus, this Resolution governs how proposals that affect the Internet will be managed in the next study period.</p> <p>A NOTE is generally considered to be descriptive, not normative, text. Stating that Recommendations are normative text doesn't change their status as non-binding documents.</p> <p>A-series Recommendations can be modified by consensus by TSAG, thus modifications to AAP as well as definition of non-normative texts would not require a WTSA (if consensus is reached at TSAG).</p>



## ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
			<ul style="list-style-type: none"> <li>• 1bis.6 - 1bis.9: Replaces these clauses, defining supplements, implementation guidelines, technical reports and handbooks, with a reference to Recommendation A.13.</li> <li>• Replaces "informative" with "non-normative" when referencing the above documents.</li> <li>• Clauses related to regional groups replaced with a reference to Resolution 54 (on regional groups). No change was made related to participation in regional groups.</li>   <li>• 2.31: Clarifies that invited experts can't participate in decision making or liaison activities.</li> <li>• When scheduling SG and TSAG meetings, major religious holidays should be avoided</li> <li>• SG reports to WTSA             <ul style="list-style-type: none"> <li>○ should be available 35 calendar days before WTSA, instead of one month.</li> <li>○ should be developed by the SG chair in consultation with the SG and should include observations on future work.</li> </ul> </li> <li>• SG Chairs and vice-chairs (Section 3):             <ul style="list-style-type: none"> <li>○ Text on appointment of chairs and vice-chairs and references to WTSA Resolution 35 replaced with reference to Resolution 208 of Plenipotentiary.</li> <li>○ Text added that SG chairs and vice-chairs must follow the ITU Constitution and Convention as well as all rules and procedures of ITU and ITU-T and must be impartial.</li> </ul> </li> <li>• Text added for actions TSAG to take when SG Chairs and vice-chairs don't attend their SG meetings.</li> <li>• TSB Director must publish proposed revisions to WTSA Resolutions at least 35 calendar days before WTSA.</li> <li>• Changed the submission deadline for contributions to WTSA from 14 to 21 calendar days before WTSA.</li> <li>• Inputs from ITU secretariat, including reports, must be published at least 35 calendar days before WTSA.</li> <li>• Section 7: Adoption and Approval of new Questions updated:             <ul style="list-style-type: none"> <li>○ Clarified that TSAG considers new Questions after SGs have reviewed them.</li> <li>○ Changed issues of overlap with work of other standardization organizations as something to be considered, not at same status as overlap with other study groups.</li> </ul> </li> </ul>	<p>Resolution 54 was extensively modified, to include text from Resolution 1. It retains current procedures for participating in regional group meetings. Thus, Sector Members and Member States can attend regional group meetings not in their region only by invitation and can be excluded, even as observers. Also, new Res. 54 confirms that Study Groups can create regional groups, informing TSAG but not requiring TSAG review before creation.</p> <p>These updates clarify a TSAG review process for creating or modifying Questions. This could provide a wider review of the work of Study Groups.</p>

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
			<ul style="list-style-type: none"> <li>○ Some Sector Members and Member States (normally 4) have to commit to support the work.</li> <li>○ Dispensing with TSAG review for urgent work is not allowed for Questions with policy or regulatory implications.</li> <li>○ Special assistance from TSB to developing countries added when received through BDT (ITU-D).</li> <li>○ Action between WSAs updated to clarify TSAG's review role and the role of consultation for Questions with policy or regulatory implications.</li> <li>● Section 8 updated               <ul style="list-style-type: none"> <li>○ Clarifies when Traditional Approval Process is assumed (policy or regulatory implications).</li> <li>○ Selection can change from AAP to TAP after a document reaches consent.</li> <li>○ Change of approval process must be announced by the chair at the meeting and must be included in the meeting report.</li> </ul> </li> <li>● During consultation for approval of Recommendations during TAP, only responses that explicitly support or do not support approval will be counted.</li> </ul>	<p>Could ease application of TAP to areas not specifically related to numbering, addressing, tariff, charging and accounting.</p> <p>This will provide more timely transparency for status of the selection of approval process.</p>
<b>Access and Infrastructure</b> <a href="#">(top)</a> <a href="#">(index)</a>				
MOD	92	Enhancing the standardization activities in the ITU Telecommunication Standardization Sector related to non-radio aspects of international mobile telecommunications	<p><b>WTSA-20 Outcome:</b>            (from RCC/40A16/1, IAP/39A26/1, AFCP/35A25/1, ARB/36A28/1, APT/37A24/1)</p> <p>Summary</p> <ul style="list-style-type: none"> <li>● Emphasizes "IMT-2020 and beyond" throughout.</li> <li>● Aligns with ITU-R Res. 56 in use of term "IMT" throughout as encompassing all IMT systems (including IMT-2020 and beyond).</li> <li>● Indicates that JCA IMT-2020 includes "IMT-2020 and beyond".</li> <li>● Emphasizes collaboration and coordination with ITU-R and other SDOs (e.g., 3GPP) and strengthens language against duplication of work.</li> <li>● Incorporates text from proposed new resolution on open access networks, e.g., in <i>resolves</i> 2 and 3.</li> <li>● Adds an <i>instructs</i> for SG3 to study the economic and regulatory questions related to IMT systems.</li> </ul>	<p>This resolution focuses on the non-radio aspects of International Mobile Telecommunications (IMT) systems. ITU-R is responsible for the radio aspects of IMT systems.</p> <p>Though this resolution doesn't mention the Internet explicitly, it provides support for work, especially in SG11 and SG13, on new protocols and architectures. The new term "IMT-2020 and beyond" could include a wide range of activities and technologies (e.g., NET2030, New IP).</p>

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
			<ul style="list-style-type: none"> <li>• Adds an <i>instructs</i> for SG5 to study the environmental questions related to IMT systems including energy efficiency.</li> <li>• modifies <i>instructs</i> SG11 to include "requirements, protocols and testing, frameworks, specifications, methodologies, capabilities, and interoperability for IMT systems (including IMT-2020 and beyond),"</li> <li>• SG13 <ul style="list-style-type: none"> <li>○ Recognizes SG13's lead role in project management coordination of non-radio aspects of IMT within ITU-T.</li> <li>○ Effectively continues SG13's work on IMT standardization roadmap (including IMT-2020 and beyond) and JCA IMT-2020.</li> <li>○ Continues SG13's "studies on non-radio aspects of IMT system (including IMT- 2020 and beyond)" adding <ul style="list-style-type: none"> <li>▪ Cloud RAN,</li> <li>▪ multi-access edge computing</li> <li>▪ open network interconnection and exposure</li> <li>▪ "terrestrial (e.g., fixed-mobile) and non-terrestrial (e.g. satellite) convergence"</li> <li>▪ use of machine learning</li> </ul> </li> </ul> </li> <li>• Continues SG15's studies on transport networks for IMT-2020 and beyond.</li> <li>• Continues SG17's studies on security for IMT-2020 and beyond including coordination and collaboration with ITU-R and 3GPP SA3.</li> <li>• <i>Encourages the Directors of the three Bureaux</i> to examine establishing an observatory for IMT-2020 and beyond and promote standardization of economic and regulatory questions related to IMT-2020 and beyond including developing guidelines for economic drivers.</li> </ul>	<p>Organizations such as IEEE, IETF, 3GPP and GSMA should monitor work under this resolution.</p> <p>In addition, text from the proposed new Resolution on open access networks (ARB/36A33/1) is incorporated. This is a veiled reference to Open RAN and supports work in this area in ITU-T. Organizations interested in Open RAN should monitor this work (e.g., O-RAN Alliance). Any actual work would be based on participation and contributions.</p> <p>The observatory could possibly be similar to Europe's 5G Observatory (<a href="https://5gobservatory.eu">https://5gobservatory.eu</a>). Proposed at the 11th CTO Meeting (<a href="https://www.itu.int/en/ITU-T/tsbdir/cto/Documents/Communique_CTO_08-09-19.pdf">https://www.itu.int/en/ITU-T/tsbdir/cto/Documents/Communique_CTO_08-09-19.pdf</a>)</p>
NOC	93	Interconnection of 4G, IMT-2020 networks and beyond	<p><b>WTSA-20 Outcome:</b> (from RCC/40A27/5) No change.</p>	RCC proposed No Change to this resolution.

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
MOD	95	ITU Telecommunication Standardization Sector initiatives to raise awareness on best practices and policies related to quality of service	<p><b>WTSA-20 Outcome:</b> (from APT/37A25/1, AFCP/35A26/1) Summary:</p> <ul style="list-style-type: none"> <li>• Emphasizes broadband networks and services when developing Recommendations on performance, QOS and QOE.</li> <li>• <i>acknowledges</i> the work on the impact of counterfeiting on the degradation of QOS on networks and end users' QOE.</li> <li>• Adds mapping, visualization and publication mechanisms to QOS and QOE studies in the work of the study groups.</li> </ul>	Revisions should not affect Internet operations materially. The resolution will support continued work on QOS and QOE measurements, e.g., in SG12, including new work on mapping and visualization. Supports continued work in SG11 on counterfeit equipment.
<p><b>Emerging Technologies (IoT, etc.)</b> (<a href="#">top</a>)(<a href="#">index</a>)</p>				
MOD	97	Combating mobile telecommunication device theft	<p><b>WTSA-20 Outcome:</b> (from RCC/40A27/7, EUR/38A34/1, IAP/39A4/1, APT/37A27/1, AFCP/35A28/1) Summary:</p> <ul style="list-style-type: none"> <li>• Streamlines preamble clauses that duplicate PP Resolution 189.</li> <li>• Modifies <i>resolves</i> 2 to address the problem of "replication of unique identifiers" instead of "duplication of unique identifiers."</li> <li>• Strengthens call to share information and best practices on combating mobile phone theft and controlling tampering with mobile telecommunications/ICT identifiers</li> </ul>	These revisions should not affect operation of the Internet and don't initiate any new standardization work (e.g., on identifiers). Studies on mobile device theft (and counterfeit devices) continues in SG11.

## ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	RES	Title	Contribution Origin Number & Key Points	Comments
MOD	98	Enhancing the standardization of Internet of things and smart cities and communities for global development	<p><b>WTSA-20 Outcome:</b> (from EUR/38A31/1, IAP/39A23/1, ARB/36A29/1, APT/37A28/1, AFCEP/35A29/1) Summary</p> <ul style="list-style-type: none"> <li>• Adds reference to the UN Global Pulse Initiative on big data and AI.</li> <li>• Adds reference to the United for Smart Sustainable Cities (U4SSC) initiative.</li> <li>• Ties work into SDG 11.</li> <li>• recognizes the role of ITU-R and ITU-D.</li> <li>• <i>instructs</i> the TSB Director " to promote and encourage the implementation of U4SSC KPIs as a standard for smart sustainable cities' self-assessment in collaboration with Member States;"</li> <li>• adds industry fora and global projects and initiatives for encouraging cooperation.</li> <li>• <i>instructs</i> the TSB Director in collaboration with the BDT Director and Radio Bureau Director               <ul style="list-style-type: none"> <li>○ to provide support to Member States to implement U4SSC KPIs for Smart Sustainable Cities;</li> <li>○ to support Member States especially those of developing countries in the organization of forums, seminars and workshops on IoT and SC&amp;C to promote innovations, development and growth in IoT technologies and solutions and report progress in this area;</li> <li>○ to assist developing countries on the implementation of recommendations, technical reports and guidelines related to IoT and SC&amp;C</li> </ul> </li> </ul>	<p>Encourages continued work in ITU-T on IoT and SSC and to cooperate with other related initiatives such as U4SSC.</p> <p>It shouldn't initiate any specific work in SG20, though it encourages use of U4SSC's KPIs "as a standard for smart sustainable cities' self-assessment"</p> <p>Encourages more support for developing countries.</p> <p>SG20 will continue its work under the Questions approved at this WTSA based on contributions.</p>

### WTSA-20 Results: A-series Recommendations

[\(back to top\)](#)[\(index\)](#)

Type	Rec.	Title	Contribution Origin Number & Key Points	Comments
NOC	A.7	Focus Groups	<p><b>WTSA-20 Outcome:</b> (from RCC/40A27/8, ARB/36A12-R1/1, IAP/39A20/1, RCC/40A27/8)</p> <p>No change. TSAG is invited to consider revisions.</p>	<p>Though multiple proposals were made to modify A.7, consensus could not be reached. Proposals for revision to A.7 could be submitted to TSAG.</p>

**WTSA-20 Results: New Resolutions**

([back to top](#)) ([index](#))

Type	Resolution	Title	Contribution Origin Number & Key Points	Comments
NA		Information and Communication Technologies role in combating global pandemics	<p><b>WTSA-20 Outcome</b> (from ARB/36A31/1, APT/37A29/1, AFCP/35A32/1)</p> <p>Not Adopted. Plenary agreed to</p> <ul style="list-style-type: none"> <li>include text of TD/62 in meeting report.</li> <li>invite Plenipotentiary 2022 to consider the text (TD/62) and take appropriate action</li> <li>instruct the TSB Director to inform the other Directors of the above and coordinate.</li> </ul>	There was general support for this proposal. Should anticipate this proposal to appear again at Plenipotentiary 2022 later this year.
ADD		A Common Emergency Number for Africa	<p><b>WTSA-20 Outcome</b> (from AFCP/35A31/1)</p> <p>Adopted</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>Instructs TSB Director to assist Member States in implementing a common emergency number in line with Recommendation E.161.1.</li> <li>Invites Member States, especially in Africa, to implement ITU-T Recommendation E.161.1 and consider 112 or 911 as primary or secondary.</li> </ul>	Shouldn't have a direct impact on the Internet, though it could affect Internet telephony (or VoIP) providers doing business in Africa.
NA		Proposed new Question on OTTs	<p><b>WTSA-20 Outcome</b> (from AFCP/35A33/1)</p> <p>Not Adopted</p> <p>Plenary agreed to instruct SG3 to consider the proposed new Question.</p>	<p>Note that Q9/3 already covers OTT.</p> <p>While WTSA-20 did not agree to create a new Question on OTTs, SG3 could choose to create a new Question or modify current Q9/3 based on the instruction from WTSA-20.</p>

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	Resolution	Title	Contribution Origin Number & Key Points	Comments
NA		Artificial Intelligence	<p><b>WTSA-20 Outcome</b> (from ARB/36A30/1)</p> <p>Not Adopted</p> <p>The plenary agreed to place the operative clauses (C/91) in the meeting report at the request of UAE.</p> <p>Also, TD/52 contains a statement from COM4 on this proposal. The statement recognizes that a discussion on AI could occur at Plenipotentiary 2022. It also recognizes that studies on AI are underway in ITU-T including SG2, SG5, SG13, SG16, and SG20; as well as ITU-T Focus Groups on "Artificial Intelligence (AI) and Internet of Things (IoT) for Digital Agriculture" (FG-AI4A), "Environmental Efficiency for Artificial Intelligence and other Emerging Technologies" (FG-AI4EE), "Artificial Intelligence for Health" (FG-AI4H), "AI for Natural Disaster Management" (FG-AI4NDM), "AI for autonomous and assisted driving" (FG-AI4AD);</p>	<p>Artificial Intelligence and machine learning are already included in the work of multiple Questions in multiple Study Groups (see Resolution 2) and that work will continue based on contributions to the Study Groups.</p> <p>A proposal on AI was made to Plenipotentiary 2018 and another will probably be made to Plenipotentiary 2022.</p> <p>Including text in the meeting report does not confer the same status as a Resolution, but could encourage work in the Study Groups.</p>

ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	Resolution	Title	Contribution Origin Number & Key Points	Comments
NA		Development of Open Networks including Standardization of Open Access Networks	<p><b>WTSA-20 Outcome</b> (from ARB/36A33/1)</p> <p>Not Adopted</p> <p>Some of the text from this proposal was included in the updated Resolution 92. Also, the plenary agreed to place the following text in the meeting report:</p> <p><i>"A new resolution proposal was submitted to WTSA 2020 on the development and adoption of open networks including open access networks for IMT systems (e.g., open radio access network) and key aspects of this topic were considered in the context of revisions to WTSA Resolution 92. The proposal emphasized the importance of this topic and the growing interests in promoting such innovative interoperable system components and network elements. In response to ITU resolutions on bridging the digital divide in broadband connectivity, particularly in developing countries, further collaboration is needed to make these technologies readily available in a cost effective manner. WTSA 20 invites members to make proposals on this important topic to WTDC with the objective of promoting the wide adoption of these new technologies and solutions globally."</i></p>	<p>Much of the discussion on this proposal was related to O-RAN. There was support for this proposal, but there was not consensus on the need for a new Resolution. Some of the concepts were included in Resolution 92.</p> <p>Look for proposals to WTDC on open access networks (or O-RAN).</p>
NA		SMART submarine cable systems	<p><b>WTSA-20 Outcome</b> (from EUR/38A26/1)</p> <p>Not Adopted.</p> <p>Plenary agreed to include the operative clauses of TD/76 (minus the term "inter alia") in the meeting report.</p>	<p>While there was support for the concepts in this proposal, there was no consensus for a new Resolution. Inclusion in the meeting report does not confer the same status as a Resolution but could encourage work in the Study Groups.</p>



ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	Resolution	Title	Contribution Origin Number & Key Points	Comments
NA		Use of hexadecimal numbering for definition of MSISDN and IMSI	<p><b>WTSA-20 Outcome</b> (from RCC/40A18/1)</p> <p>Not Adopted</p> <p>RCC agreed to submit this proposal to SG2 as a contribution</p>	Interested parties (e.g., 3GPP, GSMA, mobile providers, VoIP providers, IoT fora) that utilize E.164- or E.212-based numbering should monitor SG2 for a contribution on this topic.
ADD		Organizational reform of Study Groups	<p><b>WTSA-20 Outcome</b> (from IAP/39A13/1 and ARB/36A32/1)</p> <p>Adopted.</p> <p>IAP/39A13/1 and ARB/36A32/1 were merged into a single proposal which was adopted as a new Resolution.</p> <p>Summary:</p> <ul style="list-style-type: none"> <li>• Initiates a review of the structure of ITU-T based on the draft action plan proposed by TSAG (Appendix I to C/23)</li> <li>• TSAG will manage the review via a rapporteur group or other appropriate group.</li> <li>• The output of the review will be submitted to WTSA-24 and will be advisory and implementation will not be mandatory.</li> </ul>	<p>This resolution will not directly affect the Internet; however, a restructuring of ITU-T could affect how Internet-related work is done in ITU-T and how ITU-T works with Internet-related organizations (e.g., ICANN, IETF, 3GPP, W3C).</p> <p>Final decision on any restructuring will be based on outcome of WTSA-24 (which is only 2 years away).</p>
NA		Industry Engagement in the work of the ITU-T	<p><b>WTSA-20 Outcome</b> (from IAP/39A17/1 and EUR/38A25/1)</p> <p>Not Adopted.</p> <p>Two options were considered:</p> <ol style="list-style-type: none"> <li>1. Merge these proposals into a new Resolution and Suppress Res. 68.</li> <li>2. Merge these proposals into a modified Res. 68.</li> </ol> <p>While many Member States expressed support for industry engagement in ITU-T, no consensus could be found on either option, so this proposal was not adopted, and no changes (NOC) were made to Resolution 68.</p>	<p>During the discussions, including plenary, several Sector Members took the floor to express disappointment that ITU-T could not approve a Resolution expressing support for industry engagement in the work of ITU-T.</p> <p>CTO Meetings will not be affected.</p>

## ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Type	Resolution	Title	Contribution Origin Number & Key Points	Comments
NA		Use of in-person and virtual options on an equal footing in the activities of the ITU Telecommunication Standardization Sector	<b>WTSA-20 Outcome</b> (from IAP/39A32/1)  Not Adopted.	It was noted that this proposal would require modification of the ITU Constitution & Convention (e.g., for voting) which would require action at Plenipotentiary. Discussions will likely continue in TSAG in the Rapporteur Group on virtual meetings.  Proposals will probably be submitted to Plenipotentiary 2022 later this year.
NA		Development of standards that are machine applicable, readable and transferable (SMART) in the ITU Telecommunication Standardization Sector	<b>WTSA-20 Outcome</b> (from EUR/38A35/1)  Not Adopted.	There was some interest in the proposal and it might come up again in TSAG or could be proposed for a trial in a Study Group.

Note on ITU resolutions: ITU resolutions generally follow the form of UN resolutions. They consist of a heading, preamble clauses and operative clauses. See <https://research.un.org/en/docs/resolutions>. The preamble clauses generally end in -ing (e.g., recognizing, noting) and provide background and context for the resolution. They are also not numbered but use letters to order the sub-clauses. The operative clauses generally begin with a verb (e.g., resolves, instructs, invites), use numbered sub-clauses and provides actions to be taken. Although the preamble clauses don't contain actions to be taken, they can be referenced as justification in arguments to initiate work or take action in other meetings (e.g., study groups) and can also be interpreted as agreement on the text in the clause.

### Index

[\(back to top\)](#)

Number	Title	Result
1	Rules of procedure of the ITU Telecommunication Standardization Sector	MOD
20	Procedures for allocation and management of international telecommunication numbering, naming, addressing and identification resources	MOD
29	Alternative calling procedures on international telecommunication networks	MOD

## ITU-T WTSA 2020 – Issues Matrix as of 05 April 2022

Number	Title	Result
44	Bridging the standardization gap between developing and developed countries	MOD
48	Internationalized Domain Names	MOD
49	ENUM	NOC
50	Cybersecurity	MOD
52	Countering and combating spam	NOC
60	Responding to the challenges of the evolution of the identification/ numbering system and its convergence with IP-based systems/networks	MOD
61	Countering and Combatting Misappropriation and Misuse of INRs	MOD
64	Internet protocol address allocation and facilitating the transition to and deployment of IPv6	MOD
69	Non-discriminatory access and use of Internet resources and telecommunications/information and communication technologies	NOC
75	Sustainable Development Goals	MOD
92	Enhancing the standardization activities in the ITU Telecommunication Standardization Sector related to non-radio aspects of international mobile telecommunications	MOD
93	Interconnection of 4G, IMT-2020 networks and beyond	NOC
95	ITU Telecommunication Standardization Sector initiatives to raise awareness on best practices and policies related to quality of service	MOD
97	Combating mobile telecommunication device theft	MOD
98	Enhancing the standardization of Internet of things and smart cities and communities for global development	MOD
A.7	Focus Groups	NOC
New	Organizational reform of Study Groups	ADD
New	A Common Emergency Number for Africa	ADD
New	Information and Communication Technologies role in combating global pandemics	NA
New	Proposed new Question on OTTs	NA
New	Artificial Intelligence	NA
New	Development of Open Networks including Standardization of Open Access Networks	NA
New	SMART submarine cable systems	NA
New	Use of hexadecimal numbering for definition of MSISDN and IMSI	NA
New	Industry Engagement in the work of the ITU-T	NA
New	Use of in-person and virtual options on an equal footing in the activities of the ITU Telecommunication Standardization Sector	NA
New	Development of standards that are machine applicable, readable and transferable (SMART) in the ITU Telecommunication Standardization Sector	NA