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RESOLUTION 50 (Rev. Geneva, 2022)

Cybersecurity

(Florianópolis, 2004; Johannesburg, 2008; Dubai, 2012; Hammamet, 2016; Geneva, 2022)

The World Telecommunication Standardization Assembly (),

recalling

*a)* Resolution 130 (Rev. Dubai, 2018) of the Plenipotentiary Conference, on the role of ITU in building confidence and security in the use of information and communication technologies (ICT);

*b)* Resolution 174 (Rev. Dubai, 2018) of the Plenipotentiary Conference, on ITU's role with regard to international public policy issues relating to the risk of illicit use of ICT;

*c)* Resolution 179 (Rev. Dubai, 2018) of the Plenipotentiary Conference, on ITU's role in child online protection;

*d)* Resolution 181 (Guadalajara, 2010) of the Plenipotentiary Conference, on definitions and terminology relating to building confidence and security in the use of ICT;

*e)* Resolutions 55/63 and 56/121 of the United Nations General Assembly (UNGA), which established the legal framework on countering the criminal misuse of information technologies;

*f)* Resolution 44 (Rev. Geneva, 2022) - Bridging the standardization gap between developing and developed countries;

*g)* UNGA Resolution 57/239, on the creation of a global culture of cybersecurity;

*h)* UNGA Resolution 58/199, on the creation of a global culture of cybersecurity and the protection of essential information infrastructures;

*i)* UNGA Resolution 41/65, on principles relating to remote sensing of the Earth from outer space;

*j)* UNGA Resolution 70/125, on the outcome document of the high-level meeting of the General Assembly on the overall review of the implementation of the outcomes of the World Summit on the Information Society (WSIS);

*k)* Resolution 45 (Rev. Dubai, 2014) of the World Telecommunication Development Conference (WTDC), on mechanisms for enhancing cooperation on cybersecurity, including countering and combating spam;

*l)* Resolution 52 (Rev. Geneva, 2022) of this assembly, on countering and combating spam;

*m)* Resolution 58 (Rev. Dubai, 2012) of the World Telecommunication Standardization Assembly, on encouraging the creation of national computer incident response teams, particularly in developing countries[[1]](#footnote-1)1;

*n)* that ITU is the lead facilitator for WSIS Action Line C5 in the Tunis Agenda for the Information Society (Building confidence and security in the use of ICTs);

*o)* the cybersecurity-related provisions of the WSIS outcomes,

*p)* the related part of “guidelines for utilization of the global cybersecurity agenda”;

*q)* SDG 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation,

considering

*a)* the crucial importance of telecommunication/ICT infrastructure and their applications to practically all forms of social and economic activity;

*b)* that the legacy public switched telephone network (PSTN) has a level of inherent security properties because of its hierarchical structure and built-in management systems;

*c)* that IP networks provide reduced separation between user components and network components if adequate care is not taken in the security design and management;

*d)* that the converged legacy networks and IP networks are therefore potentially more vulnerable to intrusion if adequate care is not taken in the security design and management of such networks;

*e)* that cybersecurity is a cross-cutting issue, and the cybersecurity landscape is complex and dispersed, with many different stakeholders at the national, regional and global levels with responsibility for identifying, examining and responding to issues related to building confidence and security in the use of ICTs;

*f)* that the considerable and increasing losses which users of telecommunication/ICT systems have incurred from the growing problem of cybersecurity alarm all developed and developing nations of the world without exception;

*g)* that the fact, *inter alia*, that critical telecommunication/ICT infrastructures are interconnected at the global level means that inadequate infrastructure security in one country could result in greater vulnerability and risks in others and, therefore, cooperation is important;

*h)* that the number and methods of cyberthreats and cyberattacks are growing, as is dependence on the Internet and other networks that are essential for accessing services and information;

*i)* that standards can support the security aspects of Internet of things (IoT) and smart cities and communities (SC&C);

*j)* that in order to protect global telecommunication/ICT infrastructures from the threats and challenges of the evolving cybersecurity landscape, coordinated national, regional and international action is required for prevention, preparation, response, and recovery in respect of cybersecurity incidents;

*k*) the work undertaken and ongoing in the ITU, including ITU Telecommunication Standardization Sector (ITU‑T) Study Group 17, ITU Telecommunication Development Sector (ITU‑D) Study Group 2, including the final report of ITU‑D Study Group 1 Question 22/1-1, and under the Dubai Action Plan adopted by WTDC (Dubai, 2014);

*l)* that ITU‑T has a role to play, within its mandate and competencies, in regard to *considering j)*,

considering further

*a)* that Recommendation ITU‑T X.1205 provides a definition, a description of technologies, and network protection principles;

*b)* that Recommendation ITU‑T X.805 provides a systematic framework for identifying security vulnerabilities, and Recommendation ITU‑T X.1500 provides the cybersecurity information exchange (CYBEX) model and discusses techniques that could be used to facilitate the exchange of cybersecurity information;

*c)* that ITU‑T and the Joint Technical Committee for Information Technology (JTC 1) of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC), as well as several consortia and standards entities such as the World Wide Web consortium (W3C), the Organization for Advancement of Structured Information Standards (OASIS), the Internet Engineering Task Force (IETF), and the Institute of Electrical and Electronics Engineers (IEEE), among others, already have a significant body of published materials and ongoing work that is directly relevant to this topic, which needs to be considered;

*d*) the importance of ongoing work on security reference architecture for lifecycle management of e‑commerce business data,

recognizing

*a)* the operative paragraph of Resolution 130 (Rev. Dubai, 2018) instructing the Director of the Telecommunication Standardization Bureau (TSB) to intensify work within existing ITU‑T study groups;

*b)* that WTDC-14 approved the contribution to the strategic plan of the Union for 2016-2019, endorsing five Objectives, among them Objective 3 – *Enhance confidence and security in the use of telecommunications/ICTs, and roll-out of relevant ICT applications and services*, and the associated Output 3.1 – *Building confidence and security in the use of ICTs,* within whose framework of execution is the Cybersecurity Programme and ITU‑D Question 3/2;

*c)* that the ITU Global Cybersecurity Agenda (GCA) promotes international cooperation aimed at proposing strategies for solutions to enhance confidence and security in the use of ICTs, considering security aspects throughout the whole lifecycle of the standards-development process;

*d)* the challenges that States, particularly in developing nations, face in building confidence and security in the use of ICTs;

*e)* that the development of Artificial Intelligence (AI) helps humans to make decision without human intervention;

*f)* that is highly important for developing and developed countries to share their cybersecurity experiences and lessons learned in relevant ITU-T study groups;

*g)* that the global pandemic caused a global shift to virtual work, forcing everyone to pivot the way they operate virtually;

*h)* that many users are exposed to data theft and sabotage through malware,

recognizing further

*a)* that cyberattacks such as phishing, pharming, scan/intrusion, distributed denials of service, web-defacements, unauthorized access, etc., are emerging and having serious impacts;

*b)* that botnets are used to distribute bot-malware and carry out cyberattacks;

*c)* that sources of attacks are sometimes difficult to identify;

*d)* that critical cybersecurity threats in software and hardware may require timely vulnerability management and timely hardware and software updates;

*e)* that securing data is a key component of cybersecurity as data are often the target in cyberattacks;

*f)* that cybersecurity is one of the elements for building confidence and security in the use of telecommunications/ICTs,

noting

*a)* the vigorous activity and interest in the development of telecommunication/ICT security standards and Recommendations in Study Group 17, the lead ITU‑T study group on security and identity management, and in other standardization bodies, including the Global Standards Collaboration (GSC) group;

*b)* that there is a need for national, regional and international strategies and initiatives to be harmonized to the extent possible, in order to avoid duplication and to optimize the use of resources;

*c)* the significant and collaborative efforts by and among governments, the private sector, civil society, the technical community and academia, within their respective roles and responsibilities, to build confidence and security in the use of ICTs;

*d)* that the development of the new and emerging technologies such as AI, robotics, Internet of things (IoT), blockchain, big data and OTTs brings challenges of security and trust as well as safeguarding the privacy,

resolves

1 to continue to give this work high priority within ITU‑T, in accordance with its competencies and expertise, including promoting common understanding among governments and other stakeholders of building confidence and security in the use of ICTs at the national regional and international level;

2 that all ITU‑T study groups continue to evaluate existing and evolving new Recommendations, with respect to their robustness of design and potential for exploitation by malicious parties, and take into account new services and emerging applications to be supported by the global telecommunication/ICT infrastructure (e.g. including, but not limited to, cloud computing and IoT, which are based on telecommunication/ICT networks), according to their mandates in Resolution 2 (Rev. Geneva, 2022) of this assembly;

3 that ITU‑T continue to raise awareness, within its mandate and competencies, of the need to harden and defend information and telecommunication systems from cyberthreats and cyberattacks, 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;

4 that ITU‑T should work closely with ITU‑D, particularly in the context of ITU-D Question 3/2 (Securing information and communication networks: Best practices for developing a culture of cybersecurity);

5 that relevant ITU-T study groups should keep pace with the development of the new and emerging technologies such as AI, robotics, Internet of things (IoT), blockchain, big data and OTTs, to develop outcomes that help to overcome challenges related to security and trust as well as safeguarding the privacy in these technologies;

6 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;

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

8 that Study Group 17, in close collaboration with all other ITU‑T study groups, establish an action plan to assess existing, evolving and new ITU‑T Recommendations to counter security vulnerabilities, and continue to provide regular reports on security of telecommunications/ICT to the Telecommunication Standardization Advisory Group (TSAG);

9 that ITU‑T study groups continue to liaise with standards organizations and other bodies active in this field;

10 that security aspects should be considered throughout the ITU‑T standards-development process;

11 that relevant ITU-T study groups should consider the resilience of ICT backbone networks and systems as the priority in network and infrastructure development,

instructs the Director of the Telecommunication Standardization Bureau

1 to continue to maintain, 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 contribute to annual reports to the ITU Council on building confidence and security in the use of ICTs, as specified in Resolution 130 (Rev. Dubai, 2018);

3 to report to the Council on the progress of the activities on the "ICT Security Standards Roadmap";

4 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;

5 to continue the implementation and follow-up of relevant WSIS activities on building confidence and security in the use of ICTs, in collaboration with the other ITU Sectors and in cooperation with relevant stakeholders, as a way to share information and best practices on critical and network infrastructure security and how to mitigate current and new threats on national, regional and international non-discriminatory cybersecurity-related initiatives globally;

6 to cooperate with the Secretary-General's GCA 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;

7 to cooperate with the Secretary-General’s GCA in promoting capacity building on cyber security in all member States particularly developing countries by inviting cyber security entities to deploy regional cyber security excellence centers to train, educate and raise awareness on cyber security domains (technical, strategic, law enforcement, investigation, digital evidence …);

8 to support the Director of the Telecommunication Development Bureau in assisting Member States in the establishment of an appropriate framework among developing countries allowing rapid response to major incidents, and to propose an action plan to increase their protection, taking into account mechanisms and partnerships, as appropriate;

9 to facilitate the cybersecurity-related research activities in ITU-T study groups, with collaboration with different stakeholders, in emerging technologies including AI;

10 to support relevant ITU‑T study group activities related to strengthening and building confidence and security in the use of ICTs,

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

1 to closely collaborate in strengthening regional and international cooperation, taking into account Resolution 130 (Rev. Dubai, 2018), with a view to enhancing confidence and security in the use of ICTs, in order to mitigate risks and threats;

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

3 to participate in relevant ITU‑T study group activities to develop cybersecurity standards and guidelines in order to build confidence and security in the use of ICTs;

4 to utilize relevant ITU‑T Recommendations and supplements.

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