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| itu_logo | World Telecommunication Standardization Assembly (WTSA-16) Hammamet, 25 October - 3 November 2016 | | CCITT/ITU-T 60th Anniversary logo |
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| PLENARY MEETING | | Addendum 27 to Document 43-E | |
|  | | 9 October 2016 | |
|  | | Original: English | |
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| Arab States Administrations | | | |
| Proposals for the work of the conference | | | |
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| **Abstract:** | This contribution contains an Arab Common Proposal for the World Telecommunication Standardization Assembly (WTSA-16), which proposes a new Resolution on Enable open source as a work methodology in ITU-T. |

ADD ARB/4485/1

DRAFT NEW RESOLUTION [ARB-1]

Enable open source as a work methodology in ITU-T

(Hammamet, 2016)

The World Telecommunication Standardization Assembly (Hammamet, 2016),

*Bearing in mind*

a) the purposes of the Union are, inter alia, to promote and enhance participation of entities and organizations in the activities of the Union and foster fruitful cooperation and partnership between them and Member States for the fulfilment of the overall objectives as embodied in the purposes of the Union, to promote the extension of the benefits of the new telecommunication technologies to all the world's inhabitants and to harmonize the actions of Member States and Sector Members in the attainment of those ends (cf. the outcomes of the World Summit on the Information Society);

b) the Union, including its members, is committed to working together and collaborating with all stakeholders in the telecommunication/ICT environment in order to enable and foster access to and increased use of telecommunications/ICTs;

c) The World Summit on the Information Society (WSIS), in both its first and second phases (Geneva, 2003; and Tunis, 2005), recognized the important role played by open-source software in bridging the digital divide and realizing an inclusive information society;

d) ITU-T Objectives in resolution 71 (Rev.Busan, 2012) of Plenipotentiary Conference, and in particular (T.5) which mandates ITU-T to extend and facilitate cooperation with international, regional and national standardization bodies,

*Recalling*

a) § 10e) and § 23o) of the Geneva Plan of Action of the WSIS, in which the research and promote awareness among all stakeholders of the possibilities offered by different software models, and the means of their creation, including open-source were encouraged;

b) § 29) of the Tunis Commitment of the WSIS, in which the utilization of various technologies and licensing models, including those developed under proprietary schemes and those developed under open-source and free modalities is encouraged;

c) § 49) of the Tunis Agenda of the WSIS, in which the representatives of the peoples of the world supports the development of software that renders itself easily to localization, and enables users to choose appropriate solutions from different software models including open-source, free and proprietary software;

d) Resolution 197 (Busan, 2012) of Plenipotentiary Conference, on facilitating the Internet of Things to prepare for a globally connected world;

e) Resolution 44 (Rev. Dubai, 2012) of World Telecommunication Standardization Assembly (WTSA), on bridging the standardization gap between developing and developed countries;

f) Resolution 77 (Dubai, 2012) of World Telecommunication Standardization Assembly (WTSA), on standardization work in the ITU Telecommunication Standardization Sector (ITU-T) for software-defined networking (SDN);

g) Resolution 58 (Dubai, 2014) of World Telecommunication Development Conference (WTDC), which invites members states to promote and undertake research and development of ICT-accessible equipment, services and software, with emphasis on free and open-source software and affordable equipment and services,

*Considering*

a) that innovative SMEs are actively participating in the activities of open-source communities;

b) that open-source software production is based on a commitment to share resources among a community of peers;

c) that more and more de-facto standards are fueled by open source projects and communities, especially in the Software Defined Networking (SDN) and Network Function Virtualisation (NFV), Cloud computing, Video coding, IoT and IMT-2020 core network areas;

d) that the chief technology officers (CTO) meeting in 2015 were of view that collaboration between the standardization and open-source communities will provide further impetus to ICT convergence, and they encouraged ITU-T to study how it might accommodate the open-source community, beginning with an analysis of open-source activities underway to identify the communities with which ITU-T could build collaboration in areas such as network function virtualization (NFV), software-defined networking (SDN), cloud computing, internet of things (IoT), and video coding,

e) More and more standards and open source code development are performed in conjunction by the same group of people. Open source has become a work methodology of standardization in more and more SDOs;

*Noting*

a) complexity and incompatibility of licensing terms are causing fragmentation in open source projects;

b) Open source community could benefit from collaborating with ITU-T with overall architecture and system design, quality, interoperability, roadmap, maintenance and support;

c) Open source projects have much shorter release interval than ITU-T Recommendation and much flexible organization of work,

*Recognizing*

a) that open-source software benefits include: reducing the costs, improving security given that the source code can be checked by a large number of developers, encouraging vendor independence through open standards, increasing technical skills of the software development community;

b) that the benefits of open source to standardization include in particular:

i. In the developing process of functional specification, interoperability specification and test specification, early open source implementation can provide very useful feedback to pre-verify many specifications in details therefore improve the standard;

ii. open-source implementations of standards augment their influence, breadth of application and ease of deployment.

c) the opportunities resulting from using open-source software that include *inter alia*: i) Promoting the development of local software capabilities, thereby improving the growth of ICT industry and developing a knowledge-based economy; ii) Improving the localization of software such that it meets local needs and develops local expertise in providing support services in a timely manner; iii) Expanding applications aimed at satisfying the basic needs in the large socio-economic sectors of education and Government; iv) Developing partnerships and expanding collaborative work, thereby leading to international networks and capacity-building;

d) that developers can build end-to-end IoT solutions based on open-source software projects which will foster connecting the world and facilitate the connection between the tiniest of devices and sensors;

e) that open-source projects could be very helpful to the pre-verification of many specifications in detail, and also could improving the implementations of these ITU-T recommendations in ICT industry;

*Recognizing further,*

a) the urgency to create within ITU-T an ecosystem of tools and collaboration around ITU-T standardization that allowed for the ITU membership to implement ITU Recommendations more easily so as to improve the dissemination and proliferation of these ITU-T Recommendations in ICT industry;

b) the importance to maintain the competiveness and relevance of ITU-T as an SDO in abreast with the open source evolution of ICT technologies and the ICT standardization environment,

c) ITU’s experience with reference implementations developed by using collaborative tools and additional open source implementations outside of ITU of these same ITU recommendations /reference implementations;

d) Initiative in related ITU-T Groups (e.g., FG IMT-2020) to collaborate with international open source communities on developing common interested specifications or ITU-T recommendations, and sharing related open source software;

*Resolves to instruct all groups within ITU-T*

1 to encourage use of open source as a work methodology in its work, to develop reference implementations of functional specification, interoperability specification and test specification of ITU-T Recommendations;

2 to collaborate with open source communities as appropriate and necessary, as well as develop and improve capacity of participants in ITU-T work,

*instructs the Director of the Telecommunication Standardization Bureau*

1 to lead the IPR Ad hoc group to address the IPR related issues on Open Source project in ITU-T Study Groups when collaborate with Open Source Communities.

2 to provide necessary infrastructure and facilitate to enable open source as a work methodology in ITU-T. In particular, to prepare the necessary tools, suites, analysers within ITU-T to facilitate interoperability testing opportunities and support to assist developers who are implementing ITU-T standards.

3 to study the influence of open source to the ITU-T working methods and make suggestion on necessary adaption and enhancement to TSAG for consideration by ITU membership;

4 to report to the TSAG annually on progress achieved in implementing this resolution;

5 to take appropriate actions to facilitate and provide all necessary assistance to expedite the activities for implementation of this resolution including facilitating the participation of SMEs involved in open source software development or implementation;

6 To provide open source related BSG training to ITU-T participants, in collaboration with open source community, BDT, etc,

*instructs the Telecommunication Standardization Advisory Group*

1. to improve the existing working processes and procedures (for example: Recs. ITU-T A.5, A.25, A.Supp.5, MoUs) of ITU-T, aiming to facilitate the collaboration and coordination with Open Source Communities.

2. to revise and guide ITU-T study groups activities related to this resolution,

*Invite ITU membership*

1. Contribute to open source implementation to facilitate the development and deployment of ITU-T Recommendations;

2. Contribute expertise and facilities in open source related BSG training.