



No. 1-3/2022-IoT/TEC

Dated: 12.04.2022

Circular

Subject: Inviting nominations for reconstitution of National Working Group 20 (NWG-20) corresponding to ITU-T Study Group 20 "Internet of Things (IoT) and Smart Cities & Communities (SC&C)" for the Study Period 2022-24 – reg.

Dear Sir/ Madam,

Telecommunication Engineering Centre (TEC) is a technical arm of Department of Telecommunications, Government of India. TEC is also the National Standardization body (NSB) for telecom and ICT Sector and mandated to participate and submit contributions in the meetings of ITU and other standardization bodies such as APT, ETSI, 3GPP, oneM2M etc. TEC prepares interoperable specifications in the form of Generic Requirements (GRs), Interface Requirements (IRs), Service Requirements (SRs) and Essential Requirements (ERs) etc. For submitting contributions in International Telecommunication Union – Telecommunication Standardization Sector (ITU-T) Study Groups, TEC has National Working Groups (NWGs) corresponding to respective ITU-T Study Groups (SGs).

2. TEC is working in M2M/ IoT domain since 2014 and released 18 Technical Reports, with the outcomes intended to be used in the formulation of policies/ standards. Out of 18 TRs, five TRs as mentioned below, have been released in 2021-22:

1. IoT/ ICT Enablement in Smart Village & Agriculture
2. Code of practice for Securing Consumer IoT
3. Emerging Communication Technologies and use cases in IoT domain
4. IoT/ ICT Standards for Smart Cities
5. Framework of National Trust Center for M2M/ IoT devices and applications

All the Technical Reports are available on TEC website (<https://www.tec.gov.in/M2M-IoT-technical-reports>).

3. It is pertinent to mention that ITU-T SG-20 on "IoT and Smart Cities & Communities" was created by ITU in June 2015. Study Group 20 has been working to address the standardization requirements of Internet of Things (IoT) technologies, with an initial focus on IoT applications in Smart Cities and Communities (SC&C). SG-20 has released a series of global standards on IoT technology and its applications in Smart Cities etc.

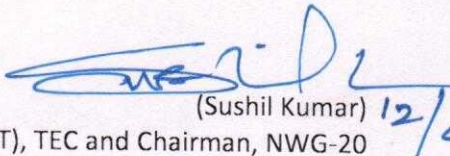
These standards are available on https://www.itu.int/ITU-T/recommendations/index_sg.aspx?sg=20. The related standards have also been referred in the TEC Technical Reports.

ITU-T SG-20 is also having two focus groups FG-DPM (Focus Group on Data Processing and Management) and FG-AI4A (Focus Group on Artificial Intelligence (AI) and Internet of Things (IoT) for Digital Agriculture).

4. National Working Group (NWG) – 20 was created in TEC in September 2015. NWG-20 is chaired by DDG (IoT) and having members from related stakeholders. NWGs are reconstituted at the beginning of the study period of ITU Study groups.
Study Groups are generally having a study period of 4 years, but due to pandemic 2017-2020 study period got extended upto 2021, as the WTSA meeting initially scheduled in February 2020 could be held only in March 2022. Now study period 2022-24 has started.
5. **Indian achievements:** IoT Division, TEC is submitting contributions in almost all the ITU-T SG-20 meetings from 2016 and presenting in person / remotely. During this period of time, two documents- **ITU-T Recommendation Y Suppl.53 (12/2018)** on IoT Use cases (having five IoT use cases from India and one from Egypt) and **ITU-T Recommendation Y Suppl.56 (12/2019)** on Smart City Use cases (having smart city use cases from Japan, Korea, UK and India), are having significant contributions from India.
6. ITU-T SG-20 includes focus areas, categorized into following seven questions for study-

Question	TITLE
Q1/ 20	Interoperability and interworking of IoT and SC&C applications and services
Q2/ 20	Requirements, capabilities and architectural frameworks across verticals enhanced by emerging digital technologies
Q3/ 20	IoT and SC&C architectures, protocols and QoS/QoE
Q4/ 20	Data analytics, sharing, processing and management, including big data aspects, of IoT and SC&C
Q5/ 20	Study of emerging digital technologies, terminology and definitions
Q6/ 20	Security, privacy, trust and identification for IoT and SC&C
Q7/ 20	Evaluation and assessment of Smart Sustainable Cities and Communities

7. The broad areas of study for NWG-20 will be same as those of ITU-T SG-20. The objective of the NWG-20 is to contribute to ITU-T SG-20 keeping in view interest of Indian Telecom Sector. The NWG-20 shall build consensus by harmonizing the interests of various stakeholders and proactively make necessary contributions to ITU-T SG-20. The contributions from India developed through NWG-20 and submitted to ITU-T SG-20 shall be towards inclusion of Indian requirements in the ITU-T recommendations & standards. The NWG-20 is being reconstituted for the Study Period 2022-24 under the chairmanship of DDG (IoT), TEC.
8. As the development of contributions is a consultative process, nominations of subject matter/ domain experts are solicited for reconstitution of NWG-20 for the Study Period 2022-24.
9. The said nominations may kindly be forwarded by e-mail to ddgsd.tec@gov.in with copy to dirsd1.tec@gov.in , namrata.singh51@gov.in within 15 days of issue of this circular.


 (Sushil Kumar) 12/24
 DDG (IoT), TEC and Chairman, NWG-20

To,
 All Stakeholders
 (including Government/ PSUs, OEMs/ ODMs, Academia,
 R&D Organizations, TSPs and Associations)