



Technical Activities

Draft Specifications on Cloud Interoperability and Portability (W11-NIP197) were approved by Study Group - Services & Solutions in the TP meeting held on 16-17 March 2023. The specifications will be progressed to the GBM for approval as TSDSI Standard, after due updates as per comments received in the TP.

Technical Report on Study of Post-Quantum Cryptography for Future 5G Networks and Application Verticals (TSDSI TR 6021 V1.0.0) was published by Study Group - Services & Solutions. It presents an analysis of the existing security algorithms in 5G Networks based on the released 3GPP standards and evaluates the potential threats of Quantum Computing to these Security Algorithms. It also reviews technical activities in other SDOs, Industry bodies, development of incremental recommendations and proposals.

Study Group - Networks TP Meeting: The Study Group held its 30th Meeting online on 14-15 March 2023. A Technical report on "Limitations of the Existing Relay (IAB) Architecture in 3GPP 4G LTE & 5G Networks" (W11-NIP 248) has progressed to the approval stage.

Transposition of new and updated specifications of 3GPP from Release 10 to 17 was approved. A few of these will be used for submission of transposition references to ITU-R for update of Recommendations M.2012 and M.2150.

A discussion to progress SI 97 (A framework for 6G KPI definition) was held in a formal conference call of SG - Networks on 7 March 2023.

Study Group - Services & Solutions TP Meeting: The Study Group held its 25th Meeting online on 16-17 March 2023. NIPs on Enablement of common ontology for adaptive traffic control system and other Intelligent transportation system products (Revised NIP 299) and Security aspect of AI/ML model transfer in 5GS (NIP 303) were approved as Study Items.

Global Standards Roundup

3GPP: The 99th 3GPP RAN/SA/CT meetings were held in Rotterdam (with remote participation) on 20-24 March 2023. Information on TSDSI participation and contributions in these meetings is listed in the scorecard overleaf.

ITU: ITU opened its India Area Office and Innovation Centre in New Delhi, C-DOT Campus. It was inaugurated by Hon'ble Prime Minister Shri Narendra Modi in the presence of ITU Secretary-General Ms Doreen Bogdan-Martin, and other dignitaries on 22 March 2023 in Vigyan Bhawan, New Delhi. As part of the Inaugural Events on 23 March 2023, ITU hosted the Regional Innovation Forum for Asia and the Pacific and Co-Creation Demonstration Session at the Area Office.

- Ms Bindoo Srivastava, Director - MARCOM and Partner Relations (TSDSI) moderated a Panel Discussion on "Open Technology Innovation for SDGs" under the Power session titled "Open Technology Innovation" in the Regional Innovation Forum.

- A Co-creation demonstration session focussed on Digital Health to spotlight on the current landscape of digital health in India. Dr Varinder Garg, Principal Investigator – ICMR-CIBioD, Chandigarh (Officer on Special Duty (OSD) to the Hon'ble Union Health Minister and President PGIMER, Govt. of India) represented TSDSI in this session.

ITU-T: Collaboration on ITS Communication Standards (CITS) held its e-meeting on 17 March 2023. Mr Hemant Magadam (Scientist E, CDAC Trivandrum) presented a [status report](#) on behalf of TSDSI.

oneM2M: The 3rd International oneM2M Hackathon (<https://bit.ly/3nf9sV2>) was kicked off on 15 March 2023 with a call for participation. Its objective was to promote oneM2M to the global developers community with oneM2M open source platforms (e.g. Mobius). 45 teams from around the world applied for this Hackathon, out of which 23 teams were shortlisted, including 2 teams from India.

Ecosystem

TSDSI Hall of Fame Awards Ceremony <https://bit.ly/3LE5Dlm> – The TSDSI Hall of Fame 2022 awards ceremony was organized on 3 March 2023 in Hybrid Mode in New Delhi. Mr Anindya Saha and Mr Satish Jamadagni were conferred TSDSI Hall of Fame 2022 FELLOW for Technical Excellence and TSDSI Hall of Fame 2022 FELLOW for Organization Building respectively by Shri K. Rajaraman, Hon'ble Secretary (T) – DoT, Government of India. A panel discussion on "Achieving Leadership in Digital Technologies Standardisation" was conducted on the occasion.

Women in Standards - TSDSI Roundtable Meeting - A Closed Door Roundtable meeting of select women experts was organized online by TSDSI on "Increasing participation of Women experts in Standardization activities from India" on 10 March 2023. The objective was to discuss how to engage more women in standards bodies. Information on initiatives being taken by ITU for women to contribute meaningfully in standards meetings was shared with the group. There was a recommendation to enable remote online participation in global meetings and hosting of the same periodically in India to allow in-person interactions.

First International Quantum Communication Conclave - TSDSI partnered with TEC, C-DOT and IEEE Communications Society Delhi chapter to organize the First International Quantum Communication Conclave on 27-28 March 2023, bringing together the international experts in the domain, practitioners, start-ups, researchers and the scientific community. Ms Pamela Kumar, DG, TSDSI, chaired the session on "Security in the Quantum-Era". Key takeaways from the conference were: It was proposed to set up a Quantum Alliance comprising all the stakeholders. The bilateral cooperation between countries should be encouraged to promote the adoption of Quantum Technologies. There is a need to have "Quantum Testbeds" with State-of-the-art equipment and for more interactive sessions/hands-on workshops to leverage the expertise and resources optimally. The conference report can be viewed at the [link here](#).

Session on "Smart Communication Solutions for Smart Utilities and Smart Cities" @ India Smart Utility Week (ISUW) 2023 <https://bit.ly/3VhoqGI> - TSDSI, along with DoT and TEC, organized a session on "Smart Communications for Smart Utilities and Smart Cities" on 1 March 2023 under the India Smart Utility Week (ISUW) 2023 conference, in New Delhi.

Panel Discussion on “India’s 6G Ambition: Role of Academia & Industry in Global Standards” was conducted on 24 March 2023 as part of the ET Telecom The 5G Congress 2023. TSDSI Experts- Prof Abhay Karandikar (Director, IIT Kanpur), Dr Rajkumar Upadhyay (Chairman, C-DOT), Dr Kumar N Sivarajan (CTO, Tejas Networks) and Ms Pamela Kumar (DG, TSDSI) participated in this panel discussion. It was moderated by Mr Bharat Bhatia (President, ITU-APT Foundation).

Operational Matters:

Extra Ordinary GC e - Meeting (GC# 42) - TSDSI Extra Ordinary GC Meeting was held on 31 March 2023 in online mode. TSDSI budget for FY 2023-24 and the tiered based 3GPP IM Fee structure were approved. 3GPP IM fees subsidy for the Start-ups extended up to MSME level was approved in principle.

TSDSI Scorecard

Description	For the Month (FTM)		Cumulative Total	
	SGN	SGSS	SGN	SGSS
Technical Activities				
No. of Technical Reports Released	-	1	9	131
No. of Standards Released	-	-	7,985	222
Membership Status				
No. of Members	-	-	105	-

Participation in Meetings of Global Forums

Meeting Name	No. of Meetings	No. of Member Organizations	No. of Contributions
3GPP	6	23	149
ITU	3SG + 3FG	2	-
oneM2M	3 WG	1	1

Upcoming Events

Event Name (Meetings/Workshops/Conferences/Webinars)	Date & Time	Location
NTIPRIT induction training of the officer trainees of Indian Telecom Services – 2020	3-7 Apr'23	Ghaziabad, India
oneM2M TP#59	17-21 Apr'23	Online
SG/WP 15: Transport, access and home	17-28 Apr'23	Geneva, Switzerland
ITU-T FG AN: Focus Group on Autonomous Networks	19-20 Apr'23	Online
3GPP PCG50/OP49	25-26 Apr'23	London, UK
Global Standards Collaboration (GSC) #23	26-27 Apr'23	London, UK

Click [here](#) to view list of upcoming events for the entire year.

Click [here](#) to read our regular newsletter which shares news about our activities.