



Technical Activities

Study Group-Networks TP Meeting: The Study Group held its 29th Meeting online on 6-7 December 2022. Adoption of specifications from ATSC 3.0 standards (relating to Network aspects) as TSDSI Standards [NIP 287] was approved. Transposed Active 3GPP Specifications of Release 13, 14, 15, 16, 17 were also approved for further submission to GBM for approval.

Study Group-Services & Solutions TP Meeting: The Study Group held its 24th Meeting online on 20-21 December 2022. The new Working Group Structure along with their Terms of Reference were approved. The three WGs are:

WG1 - Security

WG2 - Applications Layer

WG3 - Services Architecture and Framework

Adoption of specifications from ATSC 3.0 standards (related to Services & Solutions Aspects as TSDSI Standards [NIP 298] were approved. A local language repository as an enabler for financial workflows [NIP 279] was approved as Work item. The Language Preference Repository for Indian Mobile Users [WI-NIP 278] work item was merged into this WI [WI-NIP 279]. Enablement of common edge connectivity for public utility purposes [NIP 292] was approved as Study Item. A new item proposal on Enablement of common ontology for adaptive traffic control system and other Intelligent transportation system products by CDAC was introduced [NIP 299].

Global Standards Roundup:

3GPP: held its TSG SA/RAN/CT Meeting#98 in online mode from 12-19 December 2022. 85 participants from among 31 TSDSI IMs attended the meetings, making a total of 44 contributions.

ITU-T: A solution and demo developed by a team from IIT-D and IIT-Bhilai was ranked among the top 3 submissions to ITU FG AN (Focus Group Autonomous Networks) Build-a-thon in 2022, from among various submissions from 6 countries around the world. Accordingly, this team was invited to make a presentation on 01 December 2022 in the 2022 ITU AI/ML in 5G Challenge Play-offs (Final Presentations and Evaluation). This presentation on "AI/ML Driven Low Latency Closed Loop Control", the only one from India to reach this stage was very well received. This work is based on SI 90 (Creation of Edge Intelligence standards for latency and privacy management) and WI1-NIP 282 (Enhancement of application enablement architecture EDGEAPP (3GPP SA6 WG) with the support of 5GS (5G System) to enable tactile applications with edge intelligence in an Indian deployment scenario). It demo was developed with support from TSDSI and the Indo-EU Partnership Project.

oneM2M: oneM2M organised an international conference on "The Journey to Massive IoT through Interoperable and Open Standards" on 1-2 December 2022 in TTA Premises in South Korea and Online over GoToWebinar. The conference was held as part of the oneM2M TP 57 and Interop #8 activities, being hosted by TTA in its Pangyo premises. The conference illustrated the technical and innovation potential of oneM2M based open-standard, scalable and interoperable IoT systems.

A common thread emerging from the deliberations was the fact that solution providers can start with a small set of oneM2M's service-enabler capabilities. It is straightforward to add additional capabilities from the oneM2M toolkit as the requirements evolve. 8th oneM2M Interop event held on 5-7 December 2022) was also held in TTA S.Korea premises. It had participating 10 teams including CDOT from TSDSI and observers from DoT-TEC and INVAS.

Ecosystem

Global Conference on "Growth of the IoT/M2M Ecosystem through Standardized Implementations": Two-day Global Conference on "Growth of the IoT/M2M Ecosystem through Standardized Implementations" was organized by C-DOT, in partnership with Department of Telecommunications, Govt. of India and TSDSI on 14-15 December 2022 at the C-DOT Campus. The conference provided a knowledge sharing platform where, foreign and Indian experts from oneM2M, academia, R&D, industry and senior officials from Ministries of Communications, MoHUA and authorities involved in Indian Smart Cities project interacted to share knowledge and experiences. the session on Smart Agriculture in the conference, which included expert speakers from ICARI-IARI, IIT Roorkee, UIET Chandigarh and CPQD- 5G Brasil was very well received.

Panel discussion on Standards Driven Research in Indian Academia: Achievements, Challenges and the Way Forward at IEEE ANTS 2022: TSDSI partnered with IEEE ANTS to organise a panel on Standards Driven Research as part of the IEEE ANTS 2022 on 21 December 2022. The panel discussion focused on Standards Driven Research in Indian Academia: Achievements, Challenges and the Way Forward.

2nd India Spectrum Management Conference (ISMC-22): TSDSI supported the 2nd India Spectrum Management Conference organized by ITU-APT Foundation of India as a Standards Partner. The conference was held at Hotel Le Meridian, New Delhi on 6-7 December 2022. Mr. Anurag Gupta, C-DOT and Prof Brejesh Lall, IIT Delhi represented TSDSI in the Panel Discussion on India's 6G Vision and R&D roadmap which was chaired by Shri Abdul Kayum, DDG 6G, TEC on 7 December 2022.

TSDSI Scorecard

Description	For the Month (FTM)		Cumulative Total	
	SGN	SGSS	SGN	SGSS
Technical Activities				
No. of Technical Reports Released	-	-	9	129
No. of Standards Released	-	-	6,439	222
Membership Status				
No. of Members	-		104	

Participation in Meetings of Global Forums

Meeting Name	No. of Meetings	No. of Member Organizations	No. of Contributions
3GPP	3	31	44
ITU	4	2	1
oneM2M	1	16	7

Upcoming Events

Event Name (Meetings/Workshops/Conferences/Webinars)	Date & Time	Location
15th International Conference on COMMunication Systems & NETworkS COMSNETS 2023	3-8 January 2023	Bengaluru, India / Hybrid
DoT-TSDSI Micro Workshop Series on 'Advancing 5G towards 6G': #Workshop 1: Studies related to 'Mobile Network Services' #Workshop 2: Studies related to 'Technology and Systems' #Workshop 3: Studies related to 'Vertical Applications and Services'	13, 20 and 27 January 2023 respectively	Online
Focus Group on "Artificial Intelligence (AI) and Internet of Things (IoT) for Digital Agriculture" (FG-AI4A)	20 January 2023	Online
IEC-ISO-ITU-T Standardization Programme Coordination Group (SPCG) workshop on "Bridging the coordination and collaboration gap"	24 January 2023	Online
ITU-T SG/WP 20: IoT and smart cities	30 Jan -10 Feb 2023	Geneva, Switzerland
ITU-R WP 5D#43	31 Jan – 9 Feb 2023	Geneva, Switzerland

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

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