



## Technical Activities

**Adoption of TSDSI Security Standards – Transposed from 3GPP Release 15 & 16 as National Standards:** Telecom Engineering Centre (TEC, DoT) adopted a total of 124 TSDSI Security Standards transposed from 3GPP Release 15 & 16 as National Standard. These are available at link <https://tsdsi.in/3gpp/>

**Adoption of TSDSI Standards Transposed from oneM2M Release 3 as National Standards:** Telecom Engineering Centre (TEC, DoT) adopted a total of 27 TSDSI Standards from oneM2M Release 3 as National Standards. These are available at link <https://tsdsi.in/onem2m/>

**Technical Report on Study of 6 GHz spectrum for IMT services in India (TSDSI TR 6020 V1.0.0)** was published by Study Group Networks. This report is a Study of 6 GHz band usage for Licensed applications and use cases primarily focussing on 6425 MHz – 7125 MHz spectrum in India.

**Study Group-Networks TP Meeting:** The Study Group held its 28<sup>th</sup> Meeting online on 1-2 September 2022. NIPs on New Architecture for 6G Communication Systems (NIP 290) and Interface Design for RIS-assisted Communications (NIP 284) were approved as Work Items. NIPs on Study of waveforms for B5G communication systems (NIP 288), Futuristic architecture of 5G Backbone and Slicing (NIP 281), A Case Study for Sub-THz Channel Modeling (NIP 294) and Study Item for defining qualitative metrics for 6G KPI definitions (NIP 295) were approved as Study Items.

**Study Group-Services & Solutions TP Meeting:** The Study Group held its 23<sup>rd</sup> Meeting online on 6-7 September 2022. NIPs on Enablement of common edge connectivity for public utility purposes (NIP 292) and Open APIs to use Smart-Ambulance Services (NIP 293) were approved as Study Items. A new proposal on Study on system requirements related to Metaverse use cases in mobile network was also introduced in this TP.

## Global Standards Roundup

**3GPP:** 3GPP held its TSG SA/RAN/CT Meeting No.97 in online mode from 12-19 September 2022. The PCG#49/OP#48 meetings were also held in online mode from 27-28 September 2022.

**ITU-T:** ITU-T CITS e-Meeting: Mr Hemant Jeevan Magdum, Principal Engineer from CDAC represented TSDSI during the ITU-T CITS e-Meeting held on 23 September 2022, where he presented the TSDSI Status Report on Intelligent Transport Systems.

**ITU-T “Y.Sup71 : ITU-T Y.3000 series - Use cases for autonomous networks”:** ITU-T SG-13 in its meeting held in Geneva from 4-15 July 2022 had approved the contribution from IDRBT, Member TSDSI, as part of ITU-T Supplement 71 to ITU-T Y.3000 series, the same has now been pre-published. This adds pioneering use cases based on NIP 267, enabling microfinance and rural financial inclusion via Autonomous

Networks and the corresponding requirements, to ITU-T Supplement 71 to ITU-T Y.3000 series. The document is available at <https://www.itu.int/rec/T-REC-Y.Sup71-202207-P/en>

**oneM2M:** As part of the oneM2M 10<sup>th</sup> anniversary celebrations, a webinar on “Progress and Prospects for global IoT Standardization” was conducted on 8 September 2022. Click <https://bit.ly/3vaRmUh> for the webinar recording.

oneM2M held its TP#56 meeting in Hybrid Mode (ETSI Premises, Sophia Antipolis, France and Online) from 26-30 September 2022. As part of the 10<sup>th</sup> Anniversary Celebrations, an event on Revisiting TP#1 in ETSI HQ was held in this TP on 26 September 2022, wherein long serving experts and leaders were felicitated. The oneM2M Short Videos Series for Developers were also launched. Souvenirs, provided by TSDSI Member M/s Sensorise, were distributed to the members to mark the 10<sup>th</sup> anniversary.

A new oneM2M white paper on sustainable IoT features was released. It consists of eight techniques for reducing energy consumption, increasing system longevity, and minimizing the amount of e-waste in IoT deployments. To read the white paper please click <https://bit.ly/3FK9byy>

## Operational Matters

The 5<sup>th</sup> Governing Council of TSDSI, elected in July 2022, took over from the previous slate in the 39<sup>th</sup> GC Meeting held online on 23 September 2022.

## Ecosystem

**9<sup>th</sup> Global 5G Event:** As one of the signatories of the Multilateral MoU for 5G Global Events (alongwith 5G Americas, 5G Brasil, IMT2020 PG China, 5GIA Europe, 5G Forum Korea and 5GMF Japan) TSDSI participated in the 9<sup>th</sup> Global 5G Event which was organized by 5th Generation Mobile Communications Promotion Forum (5GMF) with the Ministry of Internal Affairs and Communications, Japan in Tokyo and with remote participation on 20-21 September 2022. Mr S N Rama Gopal (DoT), Mr Sunil Kumar Singhal (DoT), Ms Shikha Srivastava (C-DOT), Mr Balaji Rangaswamy (Sooktha Consulting Private Limited), Mr Sanjeev Dhallam (Bharti Airtel) and Mr Satish Jamadagni (Reliance Jio) represented TSDSI in this event. Mr Jean-Pierre Bienaime, Senior Advisor International Relations TSDSI, attended the conference on-site in Tokyo, Japan.

**5G India 2022:** TSDSI supported the 5G India 2022 Conference organized by Bharat Exhibitions as a Standards Partner. It was held in New Delhi on 7-8 September. The Plenary Panel Discussion on 5G –The Indian Journey on Standards & Innovation was chaired by Shri Kishore Babu, Member Governing Council, TSDSI (DDG SRI, DoT). Dr RK Upadhyay (Member Governing Council, TSDSI) and Mr Satish Jamadagni (Former Vice Chair, TSDSI) shared their views in this panel.

**Catalyst 2022:** Prof Abhay Karandikar (Former Chair, TSDSI) and Mr Satish Jamadagni (Former Vice Chair, TSDSI) alongwith Mr Narendra Nath (JS, NSCS) and Mr Ganesh Lakshminarayana (CEO & Head Enterprises Business, Airtel) shared their views in a Panel Discussion on "Telecom & 5G – Possibilities & Challenges" in Catalyst 2022, an event organized by StratNews Global on 21 September 2022 in New Delhi.

## Announcements

TSDSI welcomes Opt M Media Solutions Pvt Ltd, Enhanced Communications & Technologies Private Limited (ECTL), Vasbeam Pvt Ltd as corporate members and Spiktel Technologies Pvt Ltd & Gigayasa Wireless Pvt Ltd as observer members.

## TSDSI Scorecard

Description	For the Month (FTM)		Cumulative Total	
	SGN	SGSS	SGN	SGSS
<b>Technical Activities</b>				
No. of Technical Reports Released	1	-	9	129
No. of Standards Released	-	-	3,860	222
<b>Membership Status</b>				
No. of Members	5		104	

## Participation in Meetings of Global Forums

Meeting Name	No. of Meetings	No. of Member Organizations	No. of Contributions
3GPP	3	35	43
ITU	-	-	-
oneM2M	1	14	11

## Upcoming Events

Event Name (Meetings/Workshops/Conferences/Webinars)	Date & Time	Location
Towards 5G Advanced and 6G an International Conference @IMC 2022	1-3 Oct'22	Pragati Maidan, New Delhi
India Mobile Congress (IMC) 2022	1-4 Oct'22	Pragati Maidan, New Delhi
2 <sup>nd</sup> oneM2M International Hackathon	4 Oct - 28 Nov'22	Online
ITU-R WP 5D#42	10-21 Oct'22	Geneva, Switzerland
ETSI IoT Week	10-14 Oc'22	Sophia Antipolis, France
2022 IEEE 5 <sup>th</sup> Future Networks World Forum (FNWF'22) and SINGS	12-14 Oct'22	Montreal, Canada/Hybrid
The 2 <sup>nd</sup> International Conference on AI-ML-Systems (AIMLSystems'22)	12-15 Oct'22	Bangalore, India
oneM2M Tech Talk	14 Oct'22	New Delhi / Hybrid
Induction Session on TSDSI	14 Oct'22	New Delhi / Hybrid
IEEE WF-IoT 2022: IEEE World Forum on Internet of Things 2022	26 Oct -11 Nov'2	Yokohama, Japan / Hybrid
TSDSI Tech Deep Dive (TTDD) 2022	7-10 Nov'22	Mega Inaugural Session – Hybrid: IHC, New Delhi/Online: AIRMEET Tool; followed by 9 online technical sessions
ITU-T FG-AN Build-a-thon workshop 3.0: PoC Solutions Pitching	7 Nov'22	Online

Click <https://tsdsi.in/events/> to view list of upcoming events for the entire year.

Click <https://bit.ly/3sBb9dQ> to read our regular newsletter which shares news about our activities.