



## Technical Activities:

**A Technical Report on “Functional Split and Fronthaul Interface in FBS Driven C-RAN for 5G and Beyond” (TSDSI TR 6027 V1.0.0)** was published by Study Group – Networks. It focuses on re-distribution of baseband functional units through suitable functional split options for the real-time implementation of FBS-assisted C-RAN with split selection criteria, a new fronthaul interface for different split options, and a frequency band for wireless fronthaul. It also covers the pathloss effect for different environments, such as rural, urban, and dense urban, and the effect of rain attenuation and gas absorption on the wireless fronthaul channel between RRH and BBU.

**Study Group – Networks:** The Study Group held its 32<sup>nd</sup> meeting online on 4-5 September 2023. A new study item (SI110) with the title-“Study of Multiple Access for 6G Communication” was approved. A Liaison statement to JCA IMT-2020 of ITU-T has been sent informing them about the ongoing studies/standardisation work in TSDSI in respect of IMT-2020 and beyond towards update of IMT-2020 roadmap of ITU-T.

**Study Group - Services & Solutions:** The Study group held its 27<sup>th</sup> meeting online on 19-20 September 2023. Draft Technical Reports on “Slice Identification in 5G RAN and Core for End-to-End Secure and Resilient Slice Services” (SI106) and “Enablement of common ontology for adaptive traffic control system and other Intelligent transportation system products (SI102) were approved. New Work Items on RBSA – Operational Framework and Marketplace Design (W11-NIP328), Standardization of common data payload for adaptive traffic control system and other Intelligent transportation system products for interoperability (W11-NIP330) and Transposition of ETSI – IoT and NFV Standard documents as TSDSI Standards (W111- NIP329) were approved.

New Study items on Research directions and Collaboration on Intelligent Transport Systems Communication Standards (SI111), Study on Security Enablers for 6G (SI112), Enablement of common payload for Agricultural Automation Solutions (SI113), Study on semi-autonomous collaborative telerobotics (SI114) & 5G and Beyond Network Security Architecture to support Multilevel End-to-End User Plane Security (SI115) were approved. Mr Vishnu RAM, gave an overview of the ITU Conformity and interoperability initiative initiated by WTSA to the members in the meeting.

## Global Standards Roundup:

**3GPP:** TSDSI hosted 3GPP SA/RAN/CT #101 meetings in association with 5GIF and with support from the DoT, Govt. of India, from 11-15 September 2023, in Bengaluru, India, in hybrid mode. The meetings were open for participation to 3GPP IMs. A few proposals for Release 20 and preparations for 3GPP work in line with the ITU-R timeline for IMT 2030 were also discussed. Further discussions are planned in the next TSG meetings.

**ITU-T:** ITU-T CITS- Intelligent Transportation System (ITS) Communication Standards was held on 22 September 2023 in online mode. Prof Satyajit Thakor from IIT Mandi, Prof Sam Darshi from IIT Ropar along with supporting experts from TCS and CDAC Trivandrum presented the status of ITS communications work in TSDSI to this meeting.

TSDSI members registered for following ITU-T meetings:

- ITU-T SG/WP 20: IoT and smart cities on 13-22 September 2023 in Arusha, Tanzania (hybrid mode).
- ITU-T: FG-AN Meeting held on 28 September 2023 (online).

## Partner Engagements:

TSDSI signed an MoU with IMT 2030 PG on 29 September 2023. The parties intend to collaborate for a single global standard for 6G and related aspects as appropriate.

## Ecosystem:

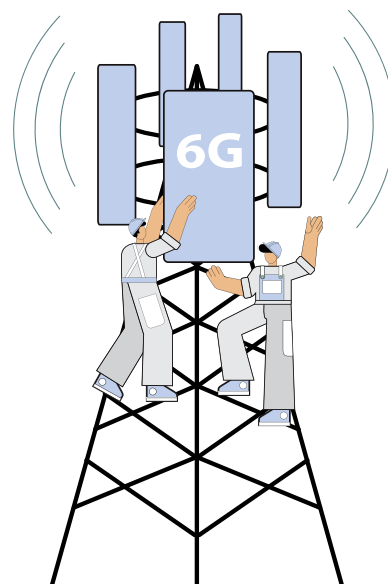
**TSDSI Outreach Workshop at 3GPP TSG #101:** TSDSI organised a “post TSG” workshop on 15 September 2023 in Bengaluru, India in hybrid mode. This helped 3GPP experts to interact with the Indian community & to disseminate information on 3GPP work plans and discuss potential areas of contribution to 3GPP. This also enabled participants to appreciate avenues of contributing to 3GPP. Along with 3GPP members, the workshop aimed to include participants from non 3GPP member organizations, to discover areas of common interest and thus promote their engagement with the 3GPP project.

## Announcements:

TSDSI welcomes ZTE Telecom India Pvt Ltd, IIT Gandhinagar & Iltiam Systems Pvt Ltd as corporate members and Advanced Television Systems Committee, Inc (ATSC) as an associate member.

## Operational Matters:

GBM #20 was held on 21 September 2023 in online mode.



## TSDSI Scorecard

Description	For the Month (FTM)		Cumulative Total	
	SGN	SGSS	SGN	SGSS
<b>Technical Activities</b>				
No. of Technical Reports Released	1	-	12	133
No. of Standards Released	408	-	8,821	223
<b>Membership Status</b>				
No. of Members	4		116	

## Participation in Meetings of Global Forums

Meeting Name	No. of Meetings	No. of Participants	No. of Contributions
3GPP	3	127	439
ITU	3	11	1
oneM2M	-	-	-

## Upcoming Events

Event Name (Meetings/Workshops/Conferences/Webinars)	Date & Time	Location
TSDSI Tech Deep Dive (TTDD 2023)	3-5 Oct'23	Online
TTDD2023 Concluding Day & TSDSI Awards Ceremony	6 Oct'23	IHC, New Delhi & Online
ITU-T: Focus Group - Costing Models for Affordable Data Services: Workshop followed by Meeting	4-6 Oct'23	New Delhi
AIoT Week Korea 2023	11-13 Oct'23	Korea IoT Association
IEEE 9th World Forum on Internet of Things	12-27 Oct'23	Portugal & Online
10 <sup>th</sup> Global 5G Event	30-31 Oct'23	Seoul, Korea

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.