

A FEW PUBLISHED TECHNICAL REPORTS

- AI supported use cases in Agriculture domain – Plant Leaf disease identification (TR 6063 V1.0.0)
- SDN-Based Optical Network for QKD: Secure and Adaptive Architecture (TR 6062 V1.0.0)
- AI/ML-based Security Implementation in 6G Wireless Communication System (TSDSI TR 6061 V1.0.0)
- Study of 5G and 6G Beyond Network Security Architecture to support Multilevel End-to-End User Plane Security (TSDSI TR 6054 V1.0.0)
- AI Driven Massive Digital Twinning Framework for Networks (TSDSI TR 6057 V1.0.0)
- Enablement of Common Edge Connectivity for Public Utility Purposes (TSDSI TR 6058 V1.0.0)
- Study on Framework for AI/ML Operation Splitting in 6G Context (TSDSI TR 6055 V1.0.0)
- Railway Communications using 5G: Use Cases & Reference Architecture (TSDSI TR 6053 V1.0.0)
- PQC in Embedded System to Secure the Connected Devices (TSDSI TR 6052 V1.0.0)
- Study on Security enabler for 6G (TSDSI TR 6051 V1.0.0)
- Interoperability of Multi-vendor QKD Hardware using SDN (TSDSI TR 6046 V1.0.0)
- Recommendations for use of Dynamic AI/ML Models for Self-Sustainable V2X Applications in 6G (TSDSI TR 6044 V1.0.0)
- Suggested Recommendations for Sustainable 6G Networks (TSDSI TR 6043 V1.0.0)
- Research Directions and Collaboration on Intelligent Transport Systems Communication Standards: MAC and ISAC Perspective (TSDSI TR 6039 V1.0.0)
- Study on Semi-Autonomous Collaborative Telerobotics (TSDSI TR 6035 V1.0.0)
- Study on the Usage of oneM2M for Smart Agriculture End-to-End Monitoring in the Indian context (TSDSI TR 6034 V1.0.0)
- Study on system requirements related to Metaverse use cases in mobile network (TSDSI TR 6031 V1.0.0)
- Study UAV/Drone 3GPP Standard Applicability to India Use Cases (TSDSI TR 6025 V1.0.0)
- Study of Post-Quantum Cryptography for Future 5G Networks and Application Verticals (TSDSI TR 6021 V1.0.0)

For full list pls click <https://tsdsi.in/tr/>

ENGAGEMENT WITH GLOBAL STANDARDS FORUMS

• ITU (<https://www.itu.int/>):

TSDSI is a sector member of ITU-R & ITU-T and currently participates in its select study groups and focus groups. TSDSI has been contributing regularly to the ITU-R WP 5D towards development of technical reports and recommendations related to IMT-2030 (aka 6G). TSDSI also contributes to the ITU-T SG 13, FG AINN etc.

TSDSI is A.5 Certified by ITU-T.

• 3GPP (<https://www.3gpp.org/>):

TSDSI is the Organizational Partner of 3GPP, the 3rd Generation Partnership Project that develops specifications for mobile telecommunication networks, in the areas of Radio Access Networks, Architectures, Core Networks and Terminals. TSDSI members have been participating in increasing numbers and making significant contributions towards development of 3GPP Specifications. TSDSI regularly hosts meetings of 3GPP TSGs / WGs in India.

• oneM2M (<https://www.onem2m.org/>):

TSDSI is Partner Type I of oneM2M, a global partnership project that develops IoT/M2M Specifications to enable interoperable, secure and easy-to-deploy applications & services for diverse verticals. oneM2M standardizes a middle layer of common service functions between the application layer and the IoT devices and Connectivity Layer. Currently 17 common service functions have been defined. TSDSI members have been participating and making significant contributions towards development of the oneM2M Specifications. TSDSI regularly hosts meetings of oneM2M in India. oneM2M Releases 2A and 4, transposed by TSDSI have been submitted to TEC for adoption as National Standards.

*** If you would like to participate/contribute to these forums, please reach out to secretariat@tsdsi.in**

For latest updates on technical activities, please read our newsletters at <https://tsdsi.in/newsletter/>

July 2026