

**Online Induction Session on TSDSI**

**Saturday, 22 May 2021**

**10:00 – 12:30 IST**



**Chairs, Study Group Services and Solutions**

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(TCS)

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(Founder and Managing Director, Sensorise Digital Services)

# Agenda

1. About SGSS
2. SGSS Activities
3. Focus Areas, calling for empowered Champions
4. Coming Plenary & Areas of Work, How to Contribute

# Study Group - Services & Solutions (SGSS)

- Define requirements for telecom industry and related services and applications, including:
  - Service level requirements and features for various domains and applications (e.g. IoT/M2M, Automotive, Public safety, Health).
- Development of end-to-end service capabilities and architecture, based on the requirements, including:
  - Technical specifications for application layer functional elements and interfaces.
  - System aspects such as QoS, interoperability, etc.
  - Data management aspects such as schemas, analytics, provisioning, etc.
  - Localization components in services and systems e.g. Indian languages.
- Security and Privacy aspects in the end to end telecom networks. It includes
  - Determining the security and privacy requirements for telecom networks including the mobile cellular and fixed-line networks across user equipment, access network, transport network, core network and service layer security aspects.
  - Specifying the related security architectures and protocols.
- Energy performance for telecommunication networks including access, user equipment, aggregation, core including the underlying transport systems, including:
  - Setting the energy performance related requirements across the end to end network
  - Benchmarking network energy performance
  - Energy optimization for networks
  - Energy performance testing
- Recommendations of test requirements and evaluation methodologies for any service level conformance testing activities.
- SGSS undertakes liaison for regulatory aspects between TSDSI and external government agencies on the above topics as required, in coordination with TSDSI secretariat
- SGSS works closely with SG-Networks for those aspects that are related to security in access network, core networks or wireless/wireline based backhaul networks

# SGSS History and Ongoing Activities

Laying a foundation for sustainable ICT

Total no. of Standards Released	136 (Security Assurance + oneM2M + oneM2M Rel. 3)
Total no. of Technical Reports Released	84 (Security Assurance + oneM2M + TSDSI TRs + oneM2M Rel. 3)

## Completed – Released

1. Study of Existing Model and Gap Analysis for a Broadband PPDR in Communication System in India (TSDSI TR 6000 V1.0.0) - [SI58]
2. Information Centric Networking (TSDSI TR 6001 V1.0.0) - [SI 60]
3. Cloud Interoperability & Portability (TSDSI TR 6005 V1.0.0) – [SI 61]
4. Reducing Threats to the National Critical Infrastructure Using DNS (TSDSI TR 6006 V2.0.0) – [SI 68]
5. Smart IoT Communication: Context Specific Data Pruning in Smart IoT applications (TSDSI TR 6008 V1.0.0)
6. Drone Communication Services Support in Cellular Network (TSDSI TR 6007 V1.0.0 )

## Accepted – Draft in progress

1. Indian Language for Financial Transactions
2. IoT Identifier
3. Study of Post-Quantum-Cryptography for 5G Networks
4. Trust framework for verification and transfer of custodian and machine relationship for the massive M2M domain (KYCM)

## NIPs – submitted in 2020

1. Smart IoT Communication: Context Specific Data Pruning in Smart IoT applications
2. Standardized Contact Tracing & Proximity Detection
3. Open Bootstrap Framework
4. Know Your Machine Custodian (KYMC)
5. IoT Identifier
6. Need of Post Quantum Cryptography in 5G Networks
7. oneM2M Rel.3 transposition as TSDSI Specs
8. Common User Profile Format
9. PPDR Use Cases & Architecture
10. Communications Requirements and Recommendations for the Energy Sector
11. 5Gi trial Use Cases in automotive
12. User Device Data Privacy
13. Rural Broadband Services & Architecture

# Ongoing Study Items / Work Items

Title	Status	Actions/Next Steps
<b>Cloud Interoperability &amp; Portability(CIP)</b> (Phase 2 to develop CIP standards)	WI approved	- Phase 2 for drafting CIP specifications initiated. Work will include security aspect and additional 5G and Edge Scenario use cases
<b>Indian Language Support for Financial Transactions &amp; Applications (ILFTA)</b>	SI approved SI 67	- Work on TR in progress
<b>Globally Unique IoT Identifier for IoT Devices and Applications</b>	SI approved SI 75	- Baseline document approved
<b>Common User Profile Format (CUP) for personalized services</b>	SI approved SI 76	- Possibility of submitting inputs regarding CUP to ITU-T as TSDSI contribution being explored
<b>User Device Data Protection for data privacy and secured collection</b>	SI approved SI 88	- TR in progress

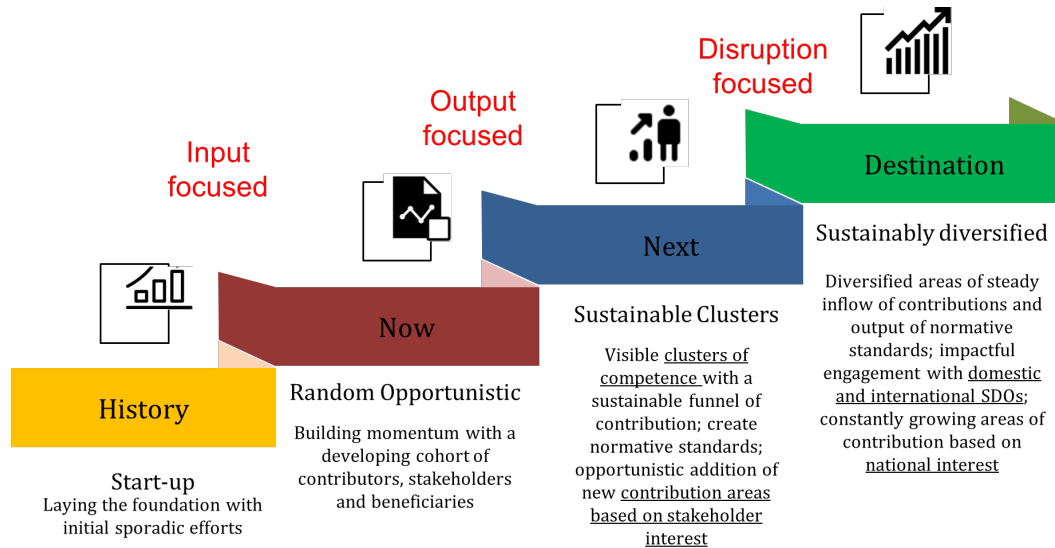
# Ongoing Study Items / Work Items (2)

Title	Status	Actions/Next Steps/Remarks
<i>Know Your Machine Custodian (KYMC) for verification and change of custodian and machine relationships</i>	SI approved SI 77	- Baseline document approved
<i>Quantum Security: Need of Post Quantum Cryptography in 5G Networks</i>	SI approved SI 78	- ToC of TR refined - Work to add content in progress
<i>Rural Broadband Services &amp; Architecture for tech. choices in providing broadband to Gram Panchayats and Villages, apps &amp; services</i>	SI approved	- SI in progress
<i>PPDR Use Cases &amp; Architecture technical aspects for deployment of a pan-India Broadband PPDR network based on PS-LTE and 5G technology</i>	SI approved	- TR in development
<i>Communications Requirements and Recommendations for the Energy Sector</i>	SI approved	- SI in progress
<i>5Gi use cases &amp; trials in automotive</i>	NIP noted	- Proposal being developed

# SGSS Focus Areas, calling for empowered Champions

Growing the Indian Standards with a Focus





## SGSS Focus Areas

**FA1: IoT/ M2M**

**FA2: Security, Trust, Privacy & Data Protection**

**FA3: Smart Infra, Application Layer Standards & Use Cases**

Calling for domain and subject matter experts to lead the SGSS Standardization journey as Empowered Champions:

- Thought leadership for standardization matters concerning Focus Areas
- Mentoring the development of White Papers, Technical Reports and Standards
- Represent SGSS voice in Indian and International Fora and Meetings

The Next SGSS Technical Plenary starts  
**Thursday, 3<sup>rd</sup> Jun 2021**  
**Come, join us!**

Take Indian innovation to global Standards!!

Links for published TRs: <https://tsdsi.in/tr/>

Brief about SGSS(ToR): <https://tsdsi.in/study-group-sg-servicessolutions-2/>

Form to fill contribution form: <https://wp.me/P92n5k-vj>

Links for NIP/SWIC templates: <https://members.tsdsi.in/index.php/f/9950>

To view existing NIP/SWIC/SI documents: <https://wp.me/P92n5k-hD>



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