

**MINUTES OF MEETING**

<b>Name of the Meeting</b>	Second TSDSI General Body (GBM) Meeting
<b>Date</b>	18 <sup>th</sup> May, 2015
<b>Time</b>	13:30 pm to 17:30 pm
<b>Venue</b>	Lecture Room #1, India International Centre Annexe, K K Birla Lane, near IIC Main Building, 40 Max Mueller Marg, New Delhi 110003
<b>Meeting Type</b>	Discussion and Decision Meeting for Elections for Technical Leadership positions, Status of Standardization Activities and future Roadmap
<b>Participants List</b>	Refer Document No. TSDSI-2-GBM-2-2015-05-18-1 (attached)
<b>Approved Agenda</b>	Refer Document No. TSDSI-1-GBM-2-2015-05-18-1 (attached)
<b>Recorder</b>	Ms Bindoo Srivastava, GM TSDSI, Ms Jayeeta Saha, Asst. Manager Standards, TSDSI Secretariat
<b>Reviewed by</b>	Mr. B S Chauhan, Executive Director (Ops), Dr. Asok Chatterjee, Director General, and Prof Abhay Karandikar, Vice Chairman
<b>Status</b>	Final (approved by the General Body in its third meeting)

**Major areas of Discussion**

i. Audited Financial Report
ii. Progress Reports from SGs/WGs
iii. Elections for the Technical Leadership positions

**DISCUSSIONS:****1. Opening Remarks by Chairman :**

Dr Kumar Sivarajan, Chairman TSDSI, extended a warm welcome to all members attending the meeting.

**2. Confirmation of the Minutes of 1<sup>st</sup> General Body meeting held on 14<sup>th</sup> October 2015:**

**TSDSI-3-GBM-2-2015-05-18-1**

The Draft Minutes of the first General Body meeting had been mailed to all TSDSI GC members after the meeting. The Draft minutes were tabled before the General Body. There being no suggestions for any change, the Minutes were approved.

**3. Action Taken Report (ATR):**

Executive Director (Operations) presented the ATR (Please refer to the attached document No. TSDSI-4-GBM-2-2015-05-18-1).

Society's technical organization structure was explained to the members. It comprises 3 study groups, namely SG1 -Wireless, SG2 – Services and SG3 – Optical Access and Transport. SG1 has 3 working groups: SG1WG1 – Radio Network Evolution and Spectrum (RNES), SG1WG2 – Core Networks (CN) and SG1WG3 – 5G. SG2 has 2 working groups: SG2WG1 for M2M and SG2WG2 for Indian Languages. SG3 currently has only one working group, SG3WG1 for Backhaul. The Study Groups and Working Groups were ratified by the membership.

A few members raised query on how to determine which members have opted for a particular SG/WG (clause 5.1.1 of Working Procedures) for the purpose of electing the chair/vice chair. Vice Chairman clarified that currently all member organizations are treated as opted-in in all SGs/WGs by default. Therefore, all member organizations are eligible to vote to elect the technical leadership positions of the Study / Working Groups.

Vice Chairman informed the members that TSDSI was now an Organizational Partner of 3GPP. Members can become Individual Members (IM) of 3GPP through TSDSI and interested members may contact the Director General (DG). As 3GPP charges TSDSI a fee for the Individual Members (IMs) joining through it, we may charge members (becoming IMs through TSDSI) an additional fee towards 3 GPP membership. A GC sub-committee on Finance and Budget is looking into the matter and their recommendations will be shared with the membership.

A few members questioned the rationale of extending 75% discount on annual subscription fee for FY 2015-16. It was acknowledged that charging full membership fees is essential to run the society. There were several suggestions on alternate subscription fee structure. Members were invited to send their suggestions on the same to the GC Sub Committee on Finances and Budget (chaired by Shri R K Pathak, DDG(IC), DoT) for their consideration.

**4. Audited Financial Report**

The Audited report of finances of the society for FY 2014-15, including Balance Sheet, and Income and Expenditure statements for FY 2014-15, was tabled before the GBM (appended to the minutes). The Chairman informed the membership that Secretariat had been directed to

arrange an in-person/telephonic meeting of the Auditor with the GC Sub Committee on Finances and Budget.

**5. Progress Reports from SGs/WGs**

Progress Reports were presented by the Acting Chairs of SG1WG2- CN, SG1WG3-5G, SG2WG1-M2M, SG2WG2- Indian Languages and SG3WG1-Backhaul. Progress Report from SG1WG1- RNES had already been presented in the preceding GC meeting and since the attendees in the GBM were same, this was not repeated. Progress Reports are appended.

**6. Elections for Chair and Vice Chair positions in SG/WGs**

Chairman invited Election Officer, Shri R K Pathak, DDG –IC to conduct elections for the chair and vice chair positions for SGs and WGs.

Election Officer shared details of the nominations received for these posts (Please refer to Annexure TSDSI-7-GBM-2-2015-05-18-1). There were single nominations for some positions. Election officer declared such nominees (listed below) as elected unopposed.

SG1WG1 [RNES] Chair	Mr Vinod Kumar M, Tejas Networks Ltd.
SG1WG1 [RNES] Vice-Chair	Mr Sudeep Divakaran, Intel Mobile
SG1WG2 [CN] Chair	Mr Kannan Babu Ramia, Intel Mobile
SG1WG2 [CN] Vice-Chair	Dr Sivabalan Arumugam, NEC India Pvt. Ltd.
SG1WG3 [5G] Chair	Dr Vinosh Babu James, Qualcomm India Pvt. Ltd.
SG1WG3 [5G] Vice Chair	Dr Pradheep Kumar Singaravelu, NEC India Pvt. Ltd.
SG2WG1 [M2M] Chair	Mr Anuj Ashokan, TTSL
SG2WG1 [M2M] Vice Chair	Dr Samar Shailendra, TCS
SG2WG2[Indian Languages] Chair	Mr Biju Rema Balagopal, Comviva Technologies Ltd.
SG2WG2[Indian Languages] ViceChair	Dr Nadeem Akhtar, CEWIT
SG3WG1[Backhaul] Chair	Mr Jishnu Aravandikshan, Tejas Networks Ltd.

Election officer informed the members that suggestions made by some members regarding SG2 and SG3 leadership positions and electorate had been deliberated upon in the Governing Council meeting held in the forenoon and the following decisions had been taken in the matter. Fresh elections for SG2 leadership positions (Chair and Vice Chair) would be held on 13<sup>th</sup> July 2015 and in online mode. It was also decided that in case of SG3, which has only one WG, Chair/Vice Chair positions would be held by SG3WG1's elected Chair/Vice chair respectively. As no nominations were received for SG3WG1 Vice chair position, fresh online elections for this position would also be held on 13<sup>th</sup> Jul 2015.

Election Officer permitted the candidates for reconsidering their nominations to the posts of SG1 Chair and Vice-chair if they so wish. Mr Niranth Amogh, Huawei withdrew from contesting for the position of SG1 Vice-Chair He also stated that he would prefer to focus on SG2 - Services

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aspect. The withdrawal was accepted by the Election Officer. Election Officer declared Mr Satish Jamadagni from RJIO declared as elected unopposed for SG1 Vice Chair.

There was a prolonged discussion on the matter of eligible voters, whether all corporate members in good standing can vote or only those members can vote who have opted for the Study Group.

Vice Chairman clarified that the elections of Chair/Vice Chair of Study Group are governed by Clause 7.2.9 of Rules and Regulations of TSDSI. As per Sub-Clause 7.2.9.2, corporate members who opt for the Study Group are eligible to vote. But Study Group SG1 has been created by GC with no history of previous meetings. All corporate members can be deemed to be members of the newly created SG1 unless they specifically opt out. This was accepted by the General Body.

Election Officer then announced election for SG1 Chair position through online voting. Voting window was opened for the Prime contacts of the eligible corporate member organizations. Voting window was closed at 5pm by which time 23 members had cast their votes online. Dr Kiran Kuchi, IIT Hyderabad received 13 votes and Mr Ashwani Kumar, Ericsson received 10 votes. Election Officer announced Dr Kiran Kuchi as elected to the position of SG1 Chair.

**7. Any Other Business**

Having covered all points on the Agenda, Chairman closed the meeting.

**Agenda for 2<sup>nd</sup> General Body Meeting of TSDSI**

**Date and Time:** 18<sup>th</sup> May, 2015, 13:30-17:15 hrs,

**Venue:** Lecture Room –I, India International Centre Annexe, K K Birla Lane, near IIC Main Building, 40, Max Mueller Marg, New Delhi 110003

**12:30 hrs to 13:30 hrs      Networking Lunch**

**13:30 hrs to 15:00 hrs      General Body Meeting**

1. Commencement of the GBM with Chairman's opening remarks
2. Approval of the Minutes of the last GBM held on 14<sup>th</sup> October 2014
3. Action Taken Report (ATR) on the Minutes of the last GBM
4. Presentation of the Audited Financial Report
5. Study Group / Working Groups presentations on work done so far, ToRs (Terms of Reference) and way forward

**15:00 hrs to 15:15 hrs      Tea Break**

**15:15 hrs to 17:15 hrs      Election for the Technical leadership positions of SG / WGs**

**Note:**

1. All are requested to reach the venue well in time for the networking lunch.

**Delegates to please carry 'Letter of Authorization to vote' from their respective organizations.**

**List of Participants**

1.	Dr. Kumar Sivarajan	Chairman, TSDSI and Chief Technology Officer, Tejas Networks Ltd.
2.	Prof. Abhay Karandikar	Vice-Chairman, TSDSI and Professor, Department of Electrical Engineering, Indian Institute of Technology Bombay
3.	Mr. R K Pathak	Government Nominated Member, TSDSI GC and DDG(IC), Department of Telecommunications (DoT)
4.	Mr G Narendra Nath,	Government Nominated Member, TSDSI and DDG (Security), DoT
5.	Mr Sandeep Gupta,	Member, TSDSI GC and Sr VP (SAE), Bharti Airtel Ltd.
6.	Dr. Sandeep Sibal	Member, TSDSI GC and Country Manager & Vice President (Business Development), Qualcomm India Private Limited
7.	Dr. Heinz Matthias Ludwig	Member, TSDSI GC and Managing Director, Intel Mobile Communications (IMC) India Pvt. Ltd.
8.	Mr. Derek Richard Long	Member, TSDSI GC and Vice President, Ericsson India Pvt. Ltd.
9.	Prof Rekha Jain,	Member, TSDSI GC and IITCOE, IIM Ahmedabad
10.	Mr. Amit Gupta,	Member, TSDSI GC and Vice President, Tata Consultancy Services
11.	Mr.Vijay Madan,	Representing Mr Neeraj Dindore, Member, TSDSI GC and Chief Mentor, Tata Teleservices Limited
12.	Mr Subrat K Prusty,	Director (IC), DoT
13.	Ms Meenu Chandra	Microsoft
14.	Mr Babu Narayanan	Chief Technologist, CEWiT
15.	Dr Kiran Kuchi,	Chair, RNES WG, TSDSI and Associate Professor, IIT Hyderabad
16.	Mr Anuj Ashokan	Chair, Machine To Machine (M2M) WG, TSDSI and Team Member –IP Solutions, Network Planning, Tata Teleservices Ltd.
17.	Mr Kannan Babu Ramia,	Chair, CN WG, TSDSI and Intel
18.	Dr. Vinosh James,	Chair, 5G WG and Qualcomm India Pvt. Ltd.
19.	Mr Anurag Vibhuti	Deputy Director, TCOE
20.	Dr Debabrata Nayak,	Chief Security Officer, Huawei
21.	Akshatha Nayak	Project Research Engineer, IIT Bombay

22.	Arghyadip Roy	Research Scholar, IIT Bombay
23.	Nishant Shah	Senior Project Manager, IIT Bombay
24.	Dr. Punit Rathod	Project Research Scientist, IIT Bombay
25.	Satish Jamadagni	AVP , Reliance JIO
26.	Ashwani Kumar	Director, Head Technology, Ericsson
27.	Samar Shailendra	Scientist, TCS
28.	Rishi Raj Sharma	Head Govt. Relations, Nokia Solutions and Networks India Pvt. Ltd.
29.	Suresh Chitturi	Standards Leader, Samsung
30.	Anupama Chopra	Group Leader, CDOT
31.	Minni Bhambri	Technical Expert, CDOT
32.	Sundar Srinivasan	Sr. Director, Intel
33.	Sudeep Divakaran	Intel
34.	Thomas P K	General Manager, TCIL
37.	Jishnu Aravindakshan	Product Architect, Tejas Networks
38.	Pradheep Kumar Singaravelu	Senior Research Engineer, NEC India
39.	Niranth Amogh	Huawei
40.	Manish Gupta	GM RA, Vodafone
41.	Dr. Asok Chatterjee	Director General, TSDSI and Vice President, Strategic Standardization, Ericsson Inc.
42.	Mr B. S. Chauhan	Executive Director (Operations), TSDSI
43.	Ms Bindoo Srivastava	Special invitee
44.	Ms Neeti Arora	TCOE CC and Special Invitee

**Action Taken Report**

Action Taken Report on the Minutes of 1st General Body meeting of TSDSI held on 14th October, 2014 in Exhibition Hall, Mezzanine Floor, C-DOT Campus, Mandi Road, Mehrauli, New Delhi 110030

**1. Item 1 of Minutes of 1<sup>st</sup> General Body Meeting: Ratification of RNES, M2M and Core Working Groups**

The Governing Council has since created three Study Groups, namely Wireless (SG1), Services (SG2) and Optical and Backhaul (SG3) and reassigned existing Work Groups (RNES, M2M and Core) to these SGs.

**2. Item 2 of Minutes of 1<sup>st</sup> General Body Meeting: Ratification of Working Group Procedures**

Working Procedures have been framed by a committee appointed by the GC. The GC approved the Working Procedures in its sixth meeting on 23rd March 2015.

**3. Item 3 of Minutes of 1<sup>st</sup> General Body Meeting: Discounted Membership fee for Next Year (2015-16)**

The discounted fee structure for 2015-16 approved by the GBM has been communicated to all existing members as well as prospective new members. Invoices for renewal fee have also been prepared in line with the discounted fee structure.

**4. Item 4 of Minutes of 1<sup>st</sup> General Body Meeting: Audited Financial Report**

TSDSI has hired 3 full time employees and is looking to induct two more. The TSDSI website has been improved in looks and functionality and the process to effect further improvements is on.

**5. Item 5 of Minutes of 1<sup>st</sup> General Body Meeting: Update on Office Space**

TSDSI office at Spaze I-Tech park, Sohna Road, Gurgaon is fully operational now. It was inaugurated on 14th Jan 2015 by Smt Rita Teotia, Spl Secretary, DoT.

**6. Item 6 of Minutes of 1<sup>st</sup> General Body Meeting: Update on International Participation - GSC, 3GPP and OneM2M**

TSDSI is now Organizational Partner of 3GPP Type 1 Member of OneM2M. DoT has released funding to meet part-fee of 3 GPP. More funding is expected.

**7. Item 7 of Minutes of 1<sup>st</sup> General Body Meeting: IPR Policy**

IPR Policy is in place.



**Audited Financial Report**



TSDSI AUDITORS'  
REPORT FY 2014-15.1

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TSDSI Balance  
Sheet FY 2014-15.pd

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**Progress Reports from SG/WGs**

SG1WG1-RNES-Pro  
gress Report



SG1WG2-CN-Progre  
ss Report



SG1WG3-5G-Progre  
ss Report



SG2WG1-M2M  
-Progress Report



SG2 WG2-Indian  
Languages-Progress



SG3  
WG1-Backhaul-Prog

**Candidates for Elections to the SG/WG Chair and Vice-Chair positions on 18<sup>th</sup> May 2015**

				Candidates			
				Chair Position		Vice Chair Position	
SG#	Study Group Name	WG#	Work Group Name	Candidate #1	Candidate #2	Candidate #1	Candidate #2
SG1	Wireless Systems			Dr Kiran Kuchi, IITH	Ashwani Kumar, Ericsson India Ltd.	Niranth Amogh, Huawei	Satish Jamadagni, Reliance Jio Infocomm. Ltd.
		SG1- WG1	RNES	Vinod Kumar M, Tejas		Sudeep Divakaran, Intel Technology India Pte. Ltd	
		SG1-WG2	CN	Kannan Babu Ramia, Intel Technology India Pte. Ltd		Dr Sivabalan Arumugam, NEC	
		SG1-WG3	5G	Dr Vinosh James, Qualcomm		Dr. Pradheep Kumar Singaravelu, NEC India Pvt. Ltd.	
SG2	Services						
		SG2-WG1	M2M	Anuj Ashokan, TTSL		Samar Shailendra, TCS	
		SG2-WG2	Indian Languages	Biju Rema Balagopal, Comviva Technologies Ltd.		Dr Nadeem Akhtar, CeWIT	
SG3	Optical Access & Transport						
		SG3-WG1	Backhaul	Jishnu Aravindakshan, Tejas Networks Ltd.			