MINUTES

TECHNICAL COMMITTEE: LITD 14

DOCUMENT DESPATCH ADVICE	
Ref	Date
LITD 14/A-2.26	11 June 2024

All Members of LITD 14

TWENTY FIFTH MEETING OF SOFTWARE AND SYSTEMS ENGINEERING SECTIONAL COMMITTEE, LITD 14 AND ITS PANELS

(Hybrid Meeting, Vimarsha (Blue room), BIS Headquarter, ITO and WebEx)

Time	1030h-1330h Thursday, April 23, 2024
Meeting link	https://bismanak.webex.com/bismanak/j.php?MTID=mc9a84756a1154282d893cd78dc110801
Meeting ID	2512 887 8725
Password	LITD14@26

Dear Sir(s),

Further to our Meeting of even number dated 23 Apr 2024, please find enclosed the MINUTES for the Twenty Sixth Meeting of above referred Committee, LITD 14.

Comments, if any, related to recording of the minutes may please be communicated to the undersigned latest by 12 June 2024.

Thanking you,

Yours Sincerely,

Sd/-

(Ashish Tiwari)
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Encl: As above

BUREAU OF INDIAN STANDARDS
MINUTES

TWENTY SIXTH MEETING OF SOFTWARE AND SYSTEMS ENGINEERING SECTIONAL COMMITTEE, LITD 14
IN JOINT SESSION WITH THE PANELS

Time	1030h-1330h Thursday, April 23, 2024
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<u>IN CHAIR</u>: 1Dr Sundeep Oberoi, Individual Capacity   <u>MEMBER SECRETARY</u>: 2 Shri Ashish Tiwari

Members Present:

S.No.	Member	Organization
3	Mr. Sridhar Sukumar	Accenture
4	Mr. Kulpreet nanda	Capgemini
5	Shri Kulbir Raina	Capgemini
6	Mr.Amit Barnawal	Cognizant
7	Ms Sailaja Parthasarathy	Intel
8	Mr.Narang N Kishore	Narnix
9	Ms Pooja Singh	NIC
10	Ms Ankita	NIC
11	Mr. Sanjiv Kumar Agarwala	Oxygen
12	Mr. Dinesh C Sharma	SESEI
13	Mr. Nitin Sharma	SESEI
14	Mr. Sanjeev Kumar	SQTC
15	Mr. Anupam Agrawal	TCS
16	Mr. Vijay Krishnamoorthy	TCS
17	Mr. Natarajan Swaminathan	TCS
18	Mr.Anand Kumar	TCS
19	Mr. JVRS Prasad	TCS
20	Mrs. Devi Muraleedharan Nair	TCS
21	Mr. Pranabesh Pramanik	TCS
22	Mr. Archan Ghosh	TCS
23	Muhammad Tabrez	TCS
24	Ms Preeti Kate	TCS
25	Ms Mary J Praveena	TCS
26	Ramesh Jain	Paras Training
27	Mr. Onkar Adwal	IN PERSONAL CAPACITY
28	Ms Usha Mohan	IN PERSONAL CAPACITY
29	Dr Sushma Verma	DRDO

ITEM 0 GENERAL

0.1 The Member Secretary welcomed all the members to the Twenty sixth meeting of LITD 14. He informed the committee regarding the activities of various Working Group under LITD 14 and briefed the committee about the plenary meetings of SC 7 and SC 40 scheduled to be held during May and June 2024.

0.2 Dr Sundeep Oberoi extended warm welcome to all the members present and requested all the members for their effective and constructive contribution in standardization activities of the committee. He informed about the current projects in SC 7. With the proliferation of internet, the IT solutions and Data management is not only used at bigger firms but also at grass root level and it is the need of the hour that our standards should also consider their requirements into consideration. He emphasized on taking a strategic direction at International Level and informed the committee about the BIS research project scheme. He then requested member secretary to carry on with the Agenda items.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 There being no comments from the members, the Committee formally confirmed the minutes of its last meeting held on 22 Nov 2023 held via webex.

ITEM 2 NEW WORK ITEM PROPOSALS

2.1 Following new proposals were received from the stakeholders:

a) DRDO proposal for Software development and testing standard for defence sector

Dr Sushma Verma, Scientist 'F' DRDO presented the proposal for development of an integrated Indian standard Software development and testing for defence sector. She informed the defence has many critical systems due to which the defence requirements are different from other regular applications. The proposal addresses the shortcomings of IEEE/Current standards and combines the best practices of multiple International Standards and various guidelines. Dr Sushma presented the important parameters that are covered in the proposed standard as given below:

a. Criterion for determination of criticality and complexity of software.
b. Latest development methodologies such as agile, dev-ops and formal methods,
c. Software Planning processes, software development lifecycle processes along with input and output of each phase of SDLC, traceability, support processes such as software configuration management process, accomplishment summary, certification process, robust review practices, SQA and IV&V activities.
d. Also includes post development processes such as software installation process, operation process disposal,
e. It also includes miscellaneous processes for tools and test rigs, previously developed software, Commercial off-the-shelf software, field loadable software, transfer of technology etc.
f. Checklist for all stages of software development life cycle including predevelopment activities and post development activities.
g. Guidelines for secure development in the form of SEI CERT C/ CERT C++ rules for writing secure and reliable code with an emphasis on avoiding common programming errors that can

lead to security vulnerabilities and CWE (common weakness enumeration) that lists common software security weaknesses are also referred in the guidelines.

h. Guidelines for development of complex electronic (FPGA) based design.
i. Software certification Process.
j. Tailoring guidelines according to the criticality and complexity of software.
k. Guidelines for usage of open source software.
l. Object Oriented Design Guidelines.
m. Secure Development Guidelines.
  i. Checklist of SEI CERT Rules for secure coding
  ii. SET CERT C++ rules for Secure Coding.
  iii. CWE Rules
n. Documentation and verification activities required for various criticality levels in accordance with tailoring guidelines.
o. Mapping with existing standards such as DO 178B/C, ISO 12207:2017
p. Compliance audit process along with checklist.

The committee discussed the proposal to develop an Indian standard for Software development and testing so as to bring uniformity in the software design and development practices for outsourcing of software development by industry partners. It was highlighted that the current life cycle standards like ISO 12207 and ISO 15288 may not cater the complete requirements of defence sector.

The committee finds that the draft is at a mature level but there is also a need to understand industry position on the proposed standard. The committee decided to circulate the draft to committee members for their review. The committee also decided to organize a workshop to discuss the given proposal. The workshop will be organized by BIS in virtual mode and DRDO was requested to invite the industry partners. Based on the feedback received during the workshop, further course of action will be decided during the next meeting of LITD 14.

b) DevOps Standard (Panel 12)

The member secretary informed that LITD 14 created a Panel 12 'DevOps' to develop an Indian standard for DeVops. Further, Panel 12 Convener, Mr Pranabesh, presented the proposal for 1st Indian Standard on DevOps providing principles, practices and maturity. This standard will provide the practices and maturity model for implementing DevOps to deliver secure and quality products and increase the speed to market with frequent/on demand releases. The proposed standard will cover the following practices:
  i. Continuous Planning
  ii. Configuration Management
  iii. Continuous Integration
  iv. Continuous Testing
  v. Continuous Delivery
  vi. Continuous Deployment
  vii. Continuous Monitoring
  viii. Continuous Experimentation

Dr. Anand suggested that there is an opportunity to utilize this proposal if the draft document is in good shape with valid content and take it forward in SC 7/WG 29.

The committee provided suggestions in the draft and requested Panel 12 to consider the same. The committee approved the proposal and approved the draft to be circulated as P Draft to all committee members for a period of one month. The comments, once received, will be discussed by Panel 12 for further necessary action.

c) Single MSS Standard for ITeS-BPO

Sh Sridhar Sukumar gave a presentation on the need and benefits for Single MSS standard for ITeS-BPO arises from non-adoption, prescriptive nature and extremely detailed of current Standards for example ESEM, CMMI for Services. Taking inspiration from Management System Standards, he proposed the Single Harmonized MSS Standard for ITeS-BPO standard as a Consolidated Standard.

The proposal is develop an integration and harmonization of a Management systems standards in the field of ITeS-BPO. At present, ITeS-BPO follows multiple standards in particular, ISO 9001, ISO 20000, ISO 14001, ISO 45001, and ISO 22301. The management of these standards introduces complexity and costs to the standard processes and client requirements, exacerbated by distinct teams overseeing different standards. In order to streamline the various requirements pertaining to these varied MSS, Sh Sridhar proposed to develop a single Management Systems Standard. It was also suggested to take this proposal directly at ISO level and simultaneously work may progress in BIS.

The committee discussed the proposal and suggested to propose this project in SC 40. Based on the suggestion received, the committee decided to discuss the proposal in the next meeting of LITD 14.

ITEM 3 STATUS OF THINK TANK AND COMMUNICATION PANEL (Panel 14)

3.1 The member secretary informed that this Panel was constituted to rejuvenate and co-opt more members from Industry in Standardization work. The title and scope of the panel is given below:

LITD 14/Pane 14 : Think-Tank and Communication Panel

 Scope : To carry out the following tasks:
a)   To identify Indian IT Industry needs
b)   To strengthen India's participation in JTC 1/SC 7 and SC 40
c)   Determination of Positions/Submissions of POV on Key Matters along with required stakeholders
d)   Avenues for creation of Indian Standards which can be potentially taken to ISO Forum
e)   Broad-basing Participation and inclusion of Key Standardization Bodies in LITD Committees including IEEE, PMI, INCOSE on an on-going basis
f)   Identification of Key Experts Participation in AGs, AHGs and WGs of JTC 1/SC 7
g)   Evaluate Mechanisms adopted by other NBs

In the absence of Panel convener, Sh Anupam Agrawal briefed the committee about the work done by this panel.

Dr Sridhar Chimalakonda and Sh Anupam Agrawal briefed the committee about the work done by SC 7/AHG 9 and AHG 10 respectively. The committee discussed these proposals and requested members to identify experts for these adhocs by SC 7.

ITEM 4 ACTIVITIES OF PANELS OF LITD 14 VIS-À-VIS PLENARY MEETINGS OF SC 7 and SC 40

4.1 The member secretary informed about the following major issues which will be discussed during the upcoming SC 7 Plenary Meetings.

4.2 Following LITD 14 Panel Conveners presented the work in progress in their respective panels.

Sl No.	New Panel No.	Title	Convener
1	LITD14/Panel 1	System software documentation	Ms. Usha Mohan
2	LITD14/ Panel 2	Tools and Environment	Dr Sridhar Chimalakonda
3	LITD14/ Panel 3	Evaluation and Metrics of Software Products and Processes	Mr. Vijay Krishnamoorthy
4	LITD14/ Panel 4	Life cycle management	Dr Anand Kumar
5	LITD14/ Panel 5	Software Asset Management	Mr. Ramesh Jain
6	LITD14/ Panel 6	Architecture	Dr Anand Kumar
7	LITD14/ Panel 7	IT Governance	Mr. Sanjiv Kumar Agarwala
8	LITD14/ Panel 8	IT Service Management	Mr Kulpreet Nanda
9	LITD14/ Panel 9	ITeS-BPO	Mr. Sridhar Sukumar
13	LITD14/ Panel 14	Think-Tank and Communication	Ms. Nayana Pandit

4.2.1 Mr. Sridhar Sukumar Convener of IT Governance Panel 7 convey his interest in Attending ISO/IEC JTC 1/SC 40 from 17-21 June 2024 in person if time permits and decide on head of Delegation. He informed the work in progress of WG 1 on ISO 38500, 38501 and 38505.He also requested the Member Secretary to check upon his nomination in JTC 1/WG 15 and consider adding more Experts in Panel 7.

4.2.2 Ms. Usha Mohan Convener of IT Governance Panel 1 gave the presentation on ongoing work in SC 7/WG2. Ms. Usha Mohon requested time to review ISO 23026 from Indian Companies perspective so that it may be simplified before adoption.

4.1.3 Mr. Vijay Krishnamoorthy Convener of IT Governance Panel 3 provided the updates on SQUARE Standards.

4.1.4 Dr. Anand Kumar Convener of Panel 4 and Panel 6 gave the presentation on WG 7 regarding ISO 24748 and requested members of Panel 10, Agile and DevOps Community. ISO 33202 was accepted in ISO DIS ballot. He recommended to favor multiple documents where India will have leadership, editor, convenorship positions and to send new proposal for WG 29 (Agile). He also provided updated SC7/WG 42 pertaining to revision and new standards in development.

4.1.5 Mrs. Devi Nair briefed about ongoing work in Panel 8 shadowing SC 40/WG2. ISO 20000 up for revision. We have the project editor role for ISO 20000 -16 which will go for an Internal ballot within WG 2 for checking its maturity level. Number of active member is Panel 8 is very less and requested to add more member in Panel 8.

4.1.6 Mr. Anupam Agarwal briefed about Panel 14 Think Tank Panel. WG 40 roadmap was discussed. He informed about ongoing work in AHG 10 and AHG 9.

4.3 JTC 1/SC 40 IT SERVICE MANAGEMENT AND IT GOVERNANCE

The member secretary informed about the following important issues which were discussed during SC 40 Plenary and WG Meetings :
   a) Revision of ISO/IEC 30105 series IT enabled Services - BPO
   a) ISO/IEC PWI TS 20000-15 – Information Technology – Service Management – Part 15 -- Guidance on the application of Agile and DevOps principles in a service management system
   b) ISO/IEC WD TS 38508 Information Technology — Governance of IT — Governance Implications of the Use of Shared Digital Service Platform among Ecosystem Organizations
   c) Information technology — IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes — Part 9: Guidelines on maturity assessment to support digital transformation
   d) NWIP on Service Integration and Management

ITEM 5 PRESENT POSITION OF WORK OF LITD 14

6.1 The committee noted the present position of work of LITD 14 as given in **Annex 3** of the agenda. The committee discussed the status of various Indian standards as given in **Item 5.2** of the agenda and decided as follows:

Sl No.	IS Number and Title	Equivalent International Standard	Latest position of corresponding Int. Standards	Decision of the committee
1.	IS/ISO/IEC 30105-4 : 2016 ITES-BPO Part 4 Process assessment model (PAM)	ISO/IEC 30105-2 : 2016	ISO/IEC FDIS 30105-4	Committee decided to circulate the draft in wide circulation for a period of 2 months
2.	IS 13394 : 2022 Systems and software engineering Requirements for designers and developers of user documentation(First Revision)	ISO/IEC 26514 : 2008	ISO/IEC26514 : 2022	Committee decided to circulate the draft in wide circulation for a period of 2 months

ITEM 6 COMPOSITION OF LITD 14

6.1 The committee noted the composition as given in the agenda. The committee requested members for suggesting nominations for panels where we are lacking participation particularly in WG 24, 26 and WG 10.

ITEM 7 INTERNATIONAL WORK

7.1 The committee noted the information as given in **Item 7** of the agenda. The committee decided to circulate following International standard in wide circulation for a period of 2 months for comments:
   a) ISO/IEC 38500 : 2024 Information technology Governance of IT for the organization
   b) ISO/IEC 30105-6 : 2021 IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 6 Guidelines on risk management
   c) ISO/IEC 30105-7 : 2019 IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 7 Exemplar for maturity assessment
   d) ISO/IEC 30105-8 : 2022 IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 8 Continual performance improvement CPI of ITES-BPO
   e) ISO/IEC 30105-9 : 2023 IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 9 Guidelines on extending process capability assessment for digital transformation

7.2 Next plenary meetings of JTC 1/SC 7 and SC 40

The member secretary informed the members about the schedule of plenary meetings of SC 7 and SC 40 as given below:

Sl No.	Meeting	Dates	Place
1	ISO/IEC JTC 1/SC 40	17-21 June 2024	Brazil (Campinas)
2	ISO/IEC JTC 1/SC 7	26-31 May 2024	Berlin (Germany)

The committee approved the following Indian Delegation from BIS for these meetings:
1) JTC 1/SC 7 'Software and System Engineering' plenary meetings

   a. Dr Sundeep Oberoi, Individual Capacity - SC 7 Chair
   b. Sh Anupam Agrawal, TCS - SC 7/AG 3 Convener
   c. Dr Deva Henry, Individual Capacity – SC 7/WG 30 Convener
   d. Ms Preeti Kate, TCS – SC 7/WG 29 and WG 30
   e. Ms Reena Garg, BIS - SC 7 Committee Manager
   f. Dr Anand Kumar, TCS - SC 7/WG 7., 29 and 42
   g. Sh Ashish Tiwari, BIS - SC 7 Committee Manager Support

2) JTC 1/SC 40 'IT service management and IT Governance'

   a) Sh Sanjiv Agarwala, Oxygen Consulting – HOD
   b) Dr Gargi Keeni, Individual Capacity
   c) Sh Kulpreet Nanda, Capgemini (Virtually) – SC 40/WG 2
   d) Ms Devi Nair, TCS (Virtually) – SC 40/WG 2

Further, BIS will also circulate the details about these meetings to all the members. Interested members may inform the same to BIS at the earliest. Further, the committee decided to nominate Dr Anand Kumar, TCS as the Head of the Delegation in upcoming JTC 1/SC 7 Plenary meetings from India. The committee also decided to nominate Sh Sanjiv Agarwala,

Oxygen Consulting as the Head of the Delegation in upcoming JTC 1/SC 40 Plenary meetings from India.

ITEM 8 INFORMATION ON E-SALE OF STANDARDS BY BIS

8.1 The committee noted the information as given in the agenda.

ITEM 9 R&D PROJECTS FROM BIS

9.1 The member secretary informed the status of following R&D projects which was approved by LITD 14 in its last meeting.

a) Data Management Practices at Panchayat Level in State of West Bengal

ITEM 10 DATE AND PLACE FOR THE NEXT MEETING

10.1 The members suggested to have the next meeting in the month of July 2024. It was decided to fix the exact date for the next meeting in consultation with the Chairman.

ITEM 11 ANY OTHER BUSINESS

11.1 There being no business left, the meeting ends with a vote of thanks to the chair.