A G E N D A

DOCUMENT DESPATCH ADVICE	
Ref	Date
LITD 14/A-2.25	21-11-2023

TECHNICAL COMMITTEE: LITD 14

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, November 23, 2023
Meeting link	https://bismanak.webex.com/bismanak/j.php?MTID=m12cd700b60cb33e4578808447e0c26f2
Meeting ID	2518 821 5202
Password	LITD14@25

Dear Sir(s),

Further to our meeting notice of dated 23 Oct 2023, please find enclosed the AGENDA for the Twenty Fifth Meeting of above referred Committee and its Panels, LITD 14.

Kindly make it convenient to attend this meeting. We shall be thankful to have your confirmation in this respect.

Thanking you,

Yours Sincerely,

Sd/-

(Ashish Tiwari)
Scientist-D(Electronics & IT)
Email: litd@bis.org.in
Telefax:01123608501

Encl: As above

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BUREAU OF INDIAN STANDARDS
AGENDA

**TWENTY FIFTH MEETING OF SOFTWARE AND SYSTEMS ENGINEERING
SECTIONAL COMMITTEE, LITD 14
IN JOINT SESSION WITH THE PANELS**
(Hybrid Meeting, Vimarsha (Blue room), BIS Headquarter, ITO and WebEx)

Time	1030h-1330h Thursday, November 23, 2023
Meeting link	https://bismanak.webex.com/bismanak/j.php?MTID=m12cd700b60cb33e4578808447e0c26f2
Meeting ID	2518 821 5202
Password	LITD14@25

CHAIRMAN: Dr Sundeep Oberoi   MEMBER SECRETARY:Shri Ashish Tiwari

ITEM 0 GENERAL

0.1 Welcome

0.2 Address by the chairman.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the last meeting of LITD 14 held on 09 Nov 2023 were circulated on 20 Nov 2023. No comments have been received.

   The committee may confirm the minutes.

ITEM 2 STATUS OF DATA MANAGEMENT PANEL (Panel 13)

2.1 This Panel was constituted to develop Indian Standard on Data Maturity Assessment and Benchmarking. The purpose of this standard is to enable evaluation of data maturity of an organization using a maturity model. The proposed standard will provide the methodology for evaluating the as-is maturity level of an organization objectively and identify the opportunities for improvement. The panel is currently divided into 4 groups: Data Governance, Data Value Delivery Enablement, Risk Management & Foundational Practices.The present composition of the panel is given in Annex 1. The panel has sent following draft as WC Draft. Further, the public consultation on the document was held on 18 Sep 2023 to discuss the public comments.

Sl No.	Document Number	Title	Last date for comments
1	LITD/14/13926	Information Technology - Adequacy of Organizational Data Governance and Management Practices	14 Oct 2023

   The comments received are given in Annex 4 (Page 23-38).

The panel may informed the status on comments disposition and decide further course of action.

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

3.1 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

The composition of the panel is given in Annex 1.

This panel organized an orientation session for new members in LITD 14 and also conducted a workshop in Agile manner to identify new proposals from India in JTC 1/SC 7. As a result of this workshop, following new work items were identified by panel member which are submitted as a proposal from India in JTC 1/SC 7.
a) Creation for an adhoc on Green Software
b) Creation of an adhoc on AI based Software development

There is also a proposal on Open-API and Interoperability Standards under consideration.

Convener is requested to brief the committee on the proposal from India in SC 7.

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

4.1   Following LITD 14 Panel Conveners are requested to brief the committee about the discussions of the corresponding SC 7 WGs.

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	Ms. Nayana Pandit
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	Ms. Mitta Rout
9	LITD14/ Panel 9	ITeS-BPO	Mr. Sridhar Sukumar
10	LITD14/ Panel 10	Agile	Ms. Gayathri Ekambaram
11	LITD14/ Panel 11	Future Watch Panel	Dr. Sundeep Oberoi
12	LITD14/ Panel 12	DevOps	Ms Sharmila Mookherjee
13	LITD14/ Panel 13	Data Management Panel	Dr Sundeep Oberoi
14	LITD14/ Panel 14	Think-Tank and Communication	Ms. Nayana Pandit

In addition, following experts have been nominated to review the following work

15. JTC 1/SC 7/WG 10 Process Assessment – Mr Anirban Bhattacharya,TCS
16. JTC 1/SC 7/WG 26 Software Testing – Ms Mary Parveena, TCS

The conveners may brief the work of their panels.

ITEM 5 PRESENT POSITION OF WORK OF LITD 14

5.1 The present position of work of   LITD 14 is given in **Annex 3 (Page 17-22)**. In accordance with BIS procedure, Indian Standards which are in existence for more than 3 years are to be reviewed for reaffirmation/revision/withdrawal.

The Committee may consider.

ITEM 6 COMPOSITION OF LITD 14

5   The present composition of Software and Systems Engineering Sectional Committee, LITD 14 and its Panels is given in **Annex 1(Page 7-13)**. The consolidated list of Indian experts nominated in JTC 1/SC 7 and SC 40 is mentioned at **Annex 2(Page 14-16).**

The committee members may let us know if there are any changes in the composition.

ITEM 7 INTERNATIONAL WORK

7.1 A List of standards published by ISO/IEC/JTC 1/SC 7 and SC 40 are mentioned on the given link:

JTC 1/SC 7: https://www.iso.org/committee/45086/x/catalogue/p/1/u/0/w/0/d/0

JTC 1/SC 40: https://www.iso.org/committee/5013818/x/catalogue/p/1/u/0/w/0/d/0

The Panel conveners were requested to identify the important standard for adoption as Indian standard. Some of the relevant standards which may be considered for adoption are given below:

The Committee may consider this and identify the other International Standards to be adopted as Indian Standards.

7.2 NEXT PLENARY/INTERIM MEETINGS OF JTC 1/SC 7 and SC 40

The next Interim meetings of SC 7 and SC 40 are scheduled as per the details given below:

Sl No.	Meeting	Dates	Place
1	ISO/IEC JTC 1/SC 40/WG 2	15 Nov 2023 02:30 to 05:29 IST	Virtual
2	ISO/IEC JTC 1/SC 40/WG 2	16 Nov 2023 18:30 to 21:30 IST	Virtual
3	ISO/IEC JTC 1/SC 40/WG 2	21 Nov 2023 10:30 to 13:30 IST	Virtual
4	ISO/IEC JTC 1/SC 40/CAG 1	22 Nov 2023 18:30 to 20:30 IST	Virtual
5	**ISO/IEC JTC 1/SC 7**	**11-15 Dec 2023**	**Virtual**
6	ISO/IEC JTC 1/SC 7/WG 19	13 Nov 2023 10:30 IST to 16 Nov 2023 10:29 IST	Virtual
7	ISO/IEC JTC 1/SC 7/WG 21	15 Nov 2023 12:30 IST to 17 Nov 2023 12:29 IST	Hybrid
8	ISO/IEC JTC 1/SC 7/WG 30	20 Nov 2023 00:00 IST to 21 Nov 2023 23:59 IST	Virtual
9	ISO/IEC JTC 1/SC 7/WG 24	20 Nov 2023 10:30 IST to 24 Nov 2023 10:29 IST	Virtual
10	ISO/IEC JTC 1/SC 7/WG 20	21 Nov 2023 20:30 IST to 29 Nov 2023 20:29 IST	Virtual
11	ISO/IEC JTC 1/SC 7/WG 7	27 Nov 2023 11:30 IST to 01 Dec 2023 11:29 IST	Virtual
12	ISO/IEC JTC 1/SC 7/WG 29	28 Nov 2023 17:30 IST to28 Nov 2023 19:30 IST	Virtual

Following Indian delegates are expected to attend this meeting:
JTC 1/SC 7 'Software and System Engineering' Interim meetings

   a. Dr Sundeep Oberoi, Individual Capacity - SC 7 Chair
   b. Sh Anupam Agrawal, TCS - SC 7/AG 3 Convener
   c. Ms Nayana Pandit, TCS - SC 7 Plenary, SC 7/WG 7 - Head of the Delegation
   d. Ms Reena Garg, BIS - SC 7 Committee Manager
   e. Sh Hrishikesh Karekar, Capgemini - SC 7/WG 7 and WG 10
   f. Dr Anand Kumar, TCS - SC 7/WG 7., 29 and 42
   g. Sh Ashish Tiwari, BIS - SC 7 Committee Manager Support
   h. Ms Gayathri, TCS – SC 7/WG 29

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

ITEM 8 INFORMATION ON E-SALE OF STANDARDS BY BIS

8.1 Bureau of Indian Standards, the National Standards Body of India has published more than 20000 Indian Standards. Indigenous standards are available without fee and other standards are available for sale. Standards are available on BIS sales portal https://www.standardsbis.in.

THE COMMITTEE MAY NOTE

ITEM 9 R&D PROJECTS FROM BIS

9.1 Following R&D projects were discussed during the last LITD 14 meeting:
a) Data Management Practices at Panchayat Level in State of West Bengal
b) Generative Artificial Intelligence for Software Engineering - A Systematic Literature Review of Approaches and Tools

Based on the discussion during the meeting, the revised text is awaited from the members.

The committee may discuss.

ITEM 10 NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION (NITS)

National Institute of Training for Standardization (NITS) has been set up by BIS with world class facilities to impart training on various aspects leading to standardization, quality and other management systems, consumer protection, public service delivery, etc. The training calendar for the current year is available on BIS web site https://www.bis.gov.in.The organizations willing to depute their personnel for training may kindly go through the appropriate programme and get them registered.

THE COMMITTEE MAY NOTE

ITEM 11 MANAKONLINE

BIS has recently migrated its activities into an online collaboration tool. Three portals – the Standardization, Conformity Assessment and Training Portals of e-BIS can be accessed through www.manakonline.in. BIS committee related work like, meeting notice, issuing agenda, minutes, P-draft, WC draft etc. is being done through the Standardization portal.

THE COMMITTEE MAY NOTE

ITEM 12 PROCESS REFORMS IN STANDARDIZATION ACTIVITY OF BIS

Member Secretary will be giving a presentation on the Process Reforms in Standardization Activity of BIS to the committee.

➢ Rolling Action plan for the year 2023-24

➢ Annual calendar of LITD 14 meetings

➢ Research projects to be taken up for inclusion of empirical data and insights

➢ Closer examination of the new work item proposals received from ISO/IEC

➢ Measures to ensure effective participation by the Indian experts at ISO/IEC levels

➢ National and International events to be participated

➢ Scientific journals and periodicals to be subscribed

➢ Creation of pool of experts

ITEM 13   DATE AND PLACE FOR THE NEXT MEETING

ITEM 14   ANY OTHER BUSINESS

Annex 1
(*Item* **7.1**)

COMPOSITION OF LITD 14 SOFTWARE AND SYSTEMS ENGINEERING

1   In Individual Capacity

Shri Sundeep Oberoi   Chairperson

2   Accenture

Shri Sridhar Sukumar   Principal

3   BlueKei Solutions Private Limited

Dr Deva Henry   Representative

Smt Stueti Gupta   Representative

4   Capgemini Technologies

Smt Sonali Khopkar   Principal

Shri Ajay Shastry   Alternate

5   Centre for Development of Advanced Computing

Shri Jasjit Singh   Principal

Shri Sanjay Wandhekar   Alternate

Shri Praveen K. Srivastava   Alternate

6   Centre for Development of Telematics(C-DOT)

Smt. Manisha Litoria   Principal

Shri Umakanth   Alternate

Shri Vinod Kumar Gupta   Alternate

7   Indian Institute of Technology Tirupati, Tirupati

Dr Sridhar Chimalakonda   Principal

8   Ministry of Communication and Information Technology

Shri Manoj kumar Saxena   Alternate

9   National Association of Software and Service Companies (NASSCOM)

Shri K.S. Viswanathan   Principal

Shri K.Purushothaman   Alternate

10   National Informatics Centre (NIC)

| Shri G. Mayil Muthu Kumaran | Principal |
| Smt Pooja Singh | Alternate |

11 Standardization Testing and Quality Certification (STQC)

Shri Sanjeev Kumar	Principal
Shri Nitish Kumar	Alternate
Shri H. Roy	Alternate

12 Tata Consultancy Services Limited

| Shri Anupam Agrawal | Alternate |
| Smt Nayana Pandit | Principal |

13 The Institution of Electronics and Telecommunication Engineer

Prof (Col) S L Kapoor (Retd)	Principal
Shri R D Kharadar	Alternate
Prof Nilesh N Kasat	Alternate

14 In Personal Capacity

Dr Jayakumar

Dr Gargi Keeni

Smt Usha Mohan

15 Cognizant technologies Ltd   Principal

Sh Amit Baranwal

Composition of Panels under LITD 14

LITD 14 : P1 - System software documentation Panel

S.No.	Member Name	Organization	Member Email
1	Ms Usha Mohan (Convenor)	Individual Capacity	ushamohan@gmail.com
2	Mr. Mallilarjun Kandkuru	KPMG	mkandkuru@kpmg.com

LITD 14 : P2 - Tools and Environment Panel

S.No.	Member Name	Organization	Member Email
1	Dr Sridhar Chimalakonda (Convenor)	IIT , Tirupati	ch@iittp.ac.in
2	Mr. Vinod Kumar Gupta	CDOT	vkgupta@cdot.in
3	Ms Sailaja Parthasarathy	Intel	sailaja.parthasarathy@intel.com
4	Vijay Krishnamoorthy(Convener)	TCS	vijay.krishnamoorthy@tcs.com
5	Ms. Shital Engineer	TCS	shital.engineer@tcs.com

LITD 14 : P3 - Evaluation and Metrics of Software Products and Processes Panel

S.No.	Member Name	Organization	Member Email
1	Vijay Krishnamoorthy (Convener)	TCS	vijay.krishnamoorthy@tcs.com
2	Natarajan Swaminathan	TCS	natarajan.Swaminathan@tcs.com
3	Dr. Anand Kumar	TCS	anand.ar@tcs.com
4	Shri Nikhil Zope	TCS	nikhil.zope@tcs.com
5	Dr Jayakumar	In Personal Capacity	jayakumar@amitysoft.com

LITD 14 : P4 - Life Cycle Management Panel

S.No.	Member Name	Organization	Member Email
1	Ms Nayana Pandit (Convenor)	TCS	nayana.pandit@tcs.com
2	Ms Pooja Singh	NIC	singhpooja@nic.in
3	Natarajan Swaminathan	TCS	natarajan.Swaminathan@tcs.com

LITD 14 : P5 - Software Asset Management Process Panel

S.No.	Member Name	Organization	Member Email
1	Mr. Ramesh Jain (Convenor)	Paras Training	ramesh@paras-training.com
2	Abhilash Varghese	In Personal Capacity	abhilashvarg@yahoo.co.in
3	Mr .Supratik Gupta	In Personal Capacity	supratikgupta@icloud.com
4	Mr. Ashwath Patil	In Personal Capacity	ashwath.patil@gmail.com
5	Mr. Ritesh Dhingra	In Personal Capacity	riteshdingra@hotmail.com
6	Shri. Kishore Gopinath	In Personal Capacity	kishoregopinath@gmail.com
7	Shri. P Saravanan	In Personal Capacity	saravanan.palani@aol.com
8	Mr. Sunil Reddy	In Personal Capacity	sunilreddy.d@gmail.com

| 9 | Sh. Onkar Adwal | In Personal Capacity | omkaradval@gmail.com |

LITD 14 : P6 - Architecture Panel

S.No.	Member Name	Organization	Member Email
1	Dr. Anand Kumar (Convenor)	TCS	anand.ar@tcs.com
2	Mr. Vinod Kumar Gupta	CDOT	vkgupta@cdot.in
3	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
4	Narang N Kishore	Narnix	kishor@narnix.com
5	Natarajan Swaminathan	TCS	natarajan.Swaminathan@tcs.com
6	Mr. Navdeep Agarwal	TCS	navigupta@gmail.com
7	Mr. Padmavathy Ramesh	TCS	padma.r@tcs.com
8	Mr. JVRS Prasad	TCS	jammalamadaka.prasad@tcs.com

LITD 14 : P7 - IT Governance Panel

S.No.	Member Name	Organization	Member Email
1	Sanjiv Kumar Agarwala (Convenor)	Oxygen Consulting Services Private Limited, Pune	ska262001@yahoo.co.in
2	Gargi Keeni	In Personal Capacity	gargi@keenis.com

LITD 14 : P8 - IT Services Management Panel

S.No.	Member Name	Organization	Member Email
1	Smt Mitta Rout (Convenor)	Individual Capacity	rout.mitta@gmail.com
2	Ms Sonali Khopkar	Capgemini	sonali.khopkar@capgemini.com
3	Ajay Shastry	Capgemini	ajay.shastry@capgemini.com
4	Mr. Kulpreet nanda	Capgemini	kulpreet.nanda@capgemini.com
5	Ms. Leena Sagar	Capgemini	leena.sagar@capgemini.com
6	Mr. Vishnu Varthanan	Capgemini	vishnu.varthanan@capgemini.com
7	Mr. M V Padmanabhayya	STQC	mvp@stqc.gov.in
8	Mr. Sandeep Khopkar	TCS	Sandeep.Khopkar@tcs.com
9	Mr. Devi Muraleedharan Nair	TCS	d.nair1@tcs.com
10	Mr. Amit Shah	Wipro, Bengaluru	amit.shah@wipro.com
11	Gargi Keeni	In Personal Capacity	gargi@keenis.com
12	Abhilash Varghese	In Personal Capacity	abhilashvarg@yahoo.co.in
13	Ms. Sujatha Kumaraswamy	In Personal Capacity	sujatha_kumaraswamy@yahoo.com
14	Mr. Sumit Jha	In Personal Capacity	sumitkjha@gmail.com

LITD 14 : P9 - IT Enabled Services/ITeS (BPO) Panel

S.No.	Member Name	Organization	Member Email
1	Shri Sridhar Sukumar (Convenor)	In Personal Capacity	sridhar.sukumar@gmail.com
2	Shri Ajith Thomas	TCS	ajith.thomas@tcs.com
3	Mrs. Chitra Natarajan	TCS	chitra.natarajan@tcs.com

4	Mr Sougata Bhattacharya	TCS	sougata.b@tcs.com
5	Ms Varsha Suresh	Wipro, Bengaluru	varsha.suresh@wipro.com
6	Mr. Ravi Veeraraghavan	In Personal Capacity	9540ravi@icmaim.in

LITD 14 : P10 - Agile Practices Panel

S.No.	Member Name	Organization	Member Email
1	Ms. Gayathri Ekambaram (Convenor)	TCS	gayathri.e@tcs.com
2	Shri Kulbir Raina	Capgemini	kulbir.raina@capgemini.com
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8	Vijay Krishnamoorthy (Convener)	TCS	vijay.krishnamoorthy@tcs.com
9	Mr. Jaisankar Ts	TCS	jaisankar.ts@tcs.com
10	Ms. Sushanta Sinha	TCS	sushanta.sinha@tcs.com
11	Mr. Manikandan Balasubramanian	TCS	manikandan.b@tcs.com
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13	Ms. Vasanthapriya Mohankumar	TCS	vasanthapriya.mohankumar@digitate.com
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15	Mr. Gorakshnath Thorat	TCS	gorakshnath.thorat@tcs.com
16	Ms. Sunanda Jain	TCS	Sunanda.Jain@tcs.com
17	Mr. Prabhakaran Sampath	TCS	Prabhakaran.sampath@tcs.com
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19	Mr. Rajesh Rajagopalan	TCS	rajesh.rajagopalan@tcs.com
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21	Mr. Sunish Cherian	TCS	sunish.cherian@tcs.com
22	Mr. Prabeer Patra	TCS	prabeer.patra@tcs.com
23	Ms. Rama Malla	TCS	m.ramadevi@tcs.com
24	Mr. Barnik De	TCS	barnik.de@tcs.com
25	Ms. Palak Sachdeva	TCS	sachdeva.palak@tcs.com
26	Mr. Vijesh Prajapati	TCS	prajapati.vijesh@tcs.com

LITD 14 : P11 - Future Watch Panel

S.No.	Member Name	Organization	Member Email
1	Dr Sundeep Oberoi (Convenor)	Individual Capacity	sundeep.oberoi@gmail.com
2	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
3	Ms Sailaja Parthasarathy	Intel	sailaja.parthasarathy@intel.com
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6	Mr. Padmavathy Ramesh	TCS	padma.r@tcs.com
7	Mr. Pranabesh Pramanik	TCS	pranabesh.pramanik@tcs.com
8	Ms. Sharmila Mookerjee	TCS	sharmila.mookerjee@tcs.com
9	Mr. Santanu Ghosh	TCS	santanu3.g@tcs.com
10	Mr. Virendra Rathi	TCS	virendra.rathi@tcs.com

LITD 14 : P12 - DevOps Panel

S.No.	Member Name	Organization	Member Email
1	Ms. Sharmila Mookerjee (Convenor)	TCS	sharmila.mookerjee@tcs.com
2	Ms. Manisha Litoria	CDOT	manishal@cdot.in
3	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
4	Anupam Agrawal	TCS	Anupam.Agrawal@tcs.com
5	Ms Nayana Pandit	TCS	nayana.pandit@tcs.com
6	Vijay Krishnamoorthy (Convener)	TCS	vijay.krishnamoorthy@tcs.com
7	Dr Sharvari Tamane	TCS	sharvaree73@yahoo.com
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9	Archan Ghosh	TCS	archan.ghosh@tcs.com
10	Leena Pradhan	TCS	leena.pradhan@tcs.com
11	Ganesh Subramoniya Iyer	TCS	s.gan@tcs.com
12	Muhammad Tabrez	TCS	tabrez.muhammad@tcs.com

LITD 14 : P13 - Data Management Panel

S.No.	Member Name	Organization	Member Email
1	Dr Sundeep Oberoi (Convenor)	Individual Capacity	sundeep.oberoi@gmail.com
2	Ms. Leena Sagar	Capgemini	leena.sagar@capgemini.com
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4	Ms. Elizabeth Koshy	Capgemini	elizabeth.koshy@capgemini.com
5	Ms Sonali Khopkar	Capgemini	sonali.khopkar@capgemini.com
6	Shri Kalpesh Parikh	ESDS	kalpesh.parikh@esds.co.in
7	Apurva	NASSCOM	Apurva@nasscom.in
8	Varun	NASSCOM	Varun@nasscom.in
9	Mr. G Mayil Muthu Kumaran	NIC	mayilmuthu@gov.in
10	Anupam Agrawal	TCS	Anupam.Agrawal@tcs.com
11	Shri Sitaram Chamarty	TCS	sitaram.chamarty@tcs.com
12	Mr. Santanu Ghosh	TCS	santanu3.g@tcs.com
13	Mr. Virendra Rathi	TCS	virendra.rathi@tcs.com
14	Dr. Neha Sharma	TCS	sharma.neha19@tcs.com
15	Preeti Kate	TCS	preeti.kate@tcs.com
16	Srimant Acharya	TCS	srimant.acharya@tcs.com
17	Sachin Lodha	TCS	sachin.lodha@tcs.com

18	Shilpu Kataria	TCS	shilpu.kataria@tcs.com
19	Ms Varsha Suresh	Wipro, Bengaluru	varsha.suresh@wipro.com
20	Vahida	In Personal Capacity	vahida.comp@coep.ac.in

LITD 14 : P14 - Think-Tank and Communication Panel

S.No.	Member Name	Organization	Member Email
1	Ms Nayana Pandit (Convenor)	TCS	nayana.pandit@tcs.com
2	Mr. Hrishikesh Karekar	Capgemini	hrishikesh.karekar@capgemini.com
3	Satyajit Nath	Capgemini	satyajit.nath@capgemni.com
4	Dr. Jeppu Yogananda	Honeywell	yvjeppu@gmail.com
5	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
6	Srikanth Srinivasan	NASSCOM	srikanth@nasscom.in
7	Dinesh Chand Sharma	SESEI	dinesh.chand.sharma@sesei.eu
8	Anupam Agrawal	TCS	Anupam.Agrawal@tcs.com
9	Dr. Anand Kumar	TCS	anand.ar@tcs.com
10	Preeti Kate	TCS	preeti.kate@tcs.com
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SC 40 Chairman Advisory Group	Dr Gargi Keeni, Individual Capacity Mr Ajith Thomas,TCS

Annex 3
(*Item* 6.**1**)

LITD 14 SOFTWARE AND SYSTEM ENGINEERING

SCOPE -   To prepare Indian standards relating to:

a) Processes, supporting tools and supporting technologies for the Engineering of software products and systems.
b) IT service management and IT governance

LIAISON WITH ISO/IEC/JTC 1 SUBCOMMITTEES
ISO/IEC/JTC1/SC 7 Software and System Engineering (P)
ISO/IEC/JTC1/SC 40 IT Service Management and IT Governance (P)

SI. No.	IS No.	TITLE
1	IS 11289 : 2023	Information technology Measurement and rating of performance of computer-based software systems
	ISO/IEC 14756 : 1999	
	ISO/IEC 14756 : 1999	
2	IS 11291 (Part 1) : 2023	Software and systems engineering Software testing Part 1: General concepts
	ISO/IEC 29119-1 : 2022	
	ISO/IEC 29119-1 : 2022	
3	IS 11291 (Part 2) : 2023	Software and systems engineering Software testing Part 2: Test processes
	ISO/IEC 29119-2 : 2021	
	ISO/IEC 29119-2 : 2021	
4	IS 11291 (Part 3) : 2023	Software and systems engineering Software testing Part 3: Test documentation
	ISO/IEC 29119-3 : 2021	
	ISO/IEC 29119-3 : 2021	
5	IS 11291 (Part 4) : 2023	Software and systems engineering Software testing Part 4: Test techniques
	ISO/IEC 29119-4 : 2021	
	ISO/IEC 29119-4 : 2021	
6	IS 12372 : 1987	Presentation of single - Hit decision tABLes
	ISO 5806: 1987[E]	
7	IS 12373 (Part 1) : 2018	Information technology - Open systems interconnection - Basic reference model: Part 1 the basic model (First Revision)
	ISO 7498-1984[E]	
8	IS 12373 (Part 2) : 1992	Basic reference model of open systems interconnection for information processing systems: Part 2 Security architecture
	ISO 7498-2	
9	IS 12373 (Part 3) : 2018	Information technology - Open systems interconnection - Basic reference model: Part 3 naming and addressing (First Revision)
	ISO/IEC 7498-3 : 199	
	ISO/IEC 7498-3 : 199	
10	IS 12373 (Part 4) : 1993	Basic reference model of open systems interconnection for information processing systems: Part 4 management framework
	ISO/IEC 7498-4	
11	IS 13394 : 2021	Systems and software engineering Requirements for designers

	ISO/IEC 26514 : 2008	and developers of user documentation(First Revision)
12	IS 13587 : 1992 ISO 8790	Computer system configuration diagram symbols and conventions for information processing systems
13	IS 13615 : 2020 ISO/IEC 15953 : 1999 ISO/IEC 15953 : 1999	Information Technology - Open Systems Interconnection - Service Definition for the Application Service Object Association Control Service Element (First Revision)
14	IS 13672 : 2018 ISO/IEC 9545 : 1994	Information technology - Open systems interconnection - Application layer structure (First Revision)
15	IS 13675 (Part 1/Sec 1) : 1993 ISO/IEC 13712-1 : 1995	Remote operations in text communication for information processing systems: Part 1 model, notation and service definition
16	IS 13675 (Part 1) : 2023 ISO/IEC 13712-1 : 1995 ISO/IEC 13712-1 : 1995	Information Technology Remote Operations Part 1 Section 1 Concepts Model and Notation
17	IS 13675 (Part 1/Sec 2) : 2023 ISO/IEC 13712-2 : 1995 ISO/IEC 13712-2 : 1995	Information Technology Ã¯Â¿Â½ Remote Operations: OSI Realizations Part 1 Section 2 Remote Operations Service Element (ROSE) Service Definition
18	IS 13675 (Part 2) : 1993 ISO/IEC 13712-3 : 1995 ISO/IEC 13712-3 : 1995	Remote operations in text communication for information processing systems: Part 2 protocol specification
19	IS 13675 (Part 2) : 2022 ISO/IEC 13712-3 : 1995	Information technology -Remote Operations: OSI realizations- Part 2 Remote Operations service Element (ROSE) Ã¯Â¿Â½ Protocol specification
20	IS 13706 : 2020 ISO/IEC 15954 : 1999 ISO/IEC 15954 : 1999	Information Technology - Open Systems Interconnection - Connection-mode Protocol for the Application Service Object Association Control Service Element (First Revision)
21	IS 13706 (Part 2) : 2016 ISO/IEC 8650-2 : 1997 ISO/IEC 8650-2 : 1997	Information technology - Open systems interconnection - Protocol specification for the association control service element: protocol implementation conformance statement (PICS) performa
22	IS 13707 (Part 1) : 1993 ISO/IEC 9066-1 ISO/IEC 9066-1	ReliABle transfer in text communication for information processing systems: Part 1 model and service definition
23	IS 13707 (Part 2) : 1993 ISO/IEC 9066-2 ISO/IEC 9066-2	ReliABle transfer in text communication for information processing systems: Part 2 protocol specification
24	IS 14639 : 2021 ISO/IEC 25051 : 2014 ISO/IEC 25051 : 2014	Software engineering Systems and software Quality Requirements and Evaluation SQuaRE Requirements for quality of Ready to Use Software Product RUSP and instructions for Testing First Revision
25	IS 14653 : 2014 ISO/IEC 14102 : 2008	Information technology - Guideline for the evaluation and selection of case tools (First Revision)
26	IS 16124 : 2020 ISOIECIEEE12207:2017	Systems and Software Engineering - Software Life Cycle Processes (First Revision)

27	IS 16417 : 2015	Software engineering - Software product quality requirements and evaluation (Square) - Planning and management
	ISO/IEC 25001:2014	
	ISO/IEC 25001:2014	
28	IS 16419 (Part 1) : 2020	Information Technology â€" IT Asset Management Part 1 IT Asset Management Systems - Requirements (First Revision)
	19770-1 : 2017	
29	IS 16419 (Part 2) : 2022	Information technology Software asset management Part 2: Software identification tag
	ISOIEC 19770-2 : 2015	
	ISOIEC 19770-2 : 2015	
30	IS 16419 (Part 3) : 2021	Information technology IT asset management Part 3: Entitlement schema
	ISO/IEC 19770-3 : 2016	
	ISO/IEC 19770-3 : 2016	
31	IS 16443 : 2016	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - System and software quality models
	ISO/IEC 25010:2011	
32	IS 16445 : 2016	Software engineering - Software product quality requirements and evaluation (Square) - Data quality model
	ISO/IEC 25012 : 2008	
33	IS 16446 : 2021	Systems and software engineering Systems and software Quality Requirements and Evaluation SQuaRE Quality measurement framework First Revision
	ISO/IEC 25020 : 2019	
34	IS 16447 : 2016	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Quality measure elements
	ISO/IEC 25021 : 2012	
35	IS 16448 : 2021	Systems and software engineering â€" Systems and software quality requirements and evaluation (SQuaRE) â€" Quality requirements framework (First Revision)
	ISO/IEC 25030 : 2019	
36	IS 16456 : 2016	Software engineering - Software life cycle processes - Maintenance
	ISO/IEC 14764 : 2006	
37	IS 16457 : 2020	Systems and Software Engineering - System Life Cycle Processes (First Revision)
	ISOIECIEEE15288:2015	
38	IS 16458 : 2023	Systems and software engineering Life cycle processes Risk management
	ISO/IEC/IEEE 16085 : 2021	
39	IS 16845 : 2019	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Guide to square
	ISO/IEC25000:2014	
40	IS 17041 : 2018	Software Quality Engineering Ã¢â‚¬â€¢ Development Process Ã¢â‚¬â€¢ Software Development Management System (SDMS) Ã¢â‚¬â€¢ Requirements
41	IS 17548 : 2021	Software and Systems Engineering â€" Core Agile Practices
42	IS 17743 (Part 1) : 2021	Systems and software engineering Lifecycle profiles for Very Small Entities VSEs Part 1: Overview
	ISO/IEC 29110-1 : 2016	
43	IS 17743 (Part 2/Sec 1) : 2021	Software Engineering Lifecycle profiles for Very Small Entities VSEs Part 2: Framework and taxonomy

	ISO/IEC 29110-2-1 : 2015	
44	IS/ISO/IEC 20000-1 : 2018	Information Technology - Service Management Part 1 Service Management System Requirements (Second Revision)
45	IS/ISO/IEC 20000-2 : 2019 ISO/IEC 20000 (PART 2) : 2019	Information technology - Service management - Part 2: Guidance on the application of service management systems (Second Revision)
46	IS/ISO/IEC 20000-3 : 2019 ISO/IEC 20000 (PART 3) : 2019	Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISOIEC 20000-1 (First Revision)
47	IS/ISO/IEC/TR 20000-5 : 2013 ISO/IEC 20000-5:2013	Information Technology - Service Management Part 5 Exemplar Implementation Plan for IS/ISO/IEC TR 20000-5
48	IS/ISO/IEC 20000-10 : 2018 ISO/IEC 20000 (PART 10) : 2018	Information Technology Service Management Part 10 Concepts and Vocabulary (First Revision)
49	IS/ISO/IEC/TS 30103 : 2015 ISO/IEC 30103:2015	Software and Systems Engineering - Lifecycle Processes - Framework for Product Quality Achievement
50	IS/ISO/IEC 30105-1 : 2016 ISO/IEC 30105-1 : 2016	Information Technology - IT Enabled Services - Business Process outsourcing (ITES-BPO) Lifecyle Processes Part 1 Process Reference Model (PRM)
51	IS/ISO/IEC 30105-2 : 2016 ISO/IEC 30105-2 : 2016	Information Technology - IT Enabled Serives - Business Process Outsouring (ITES - BPO) Lifecyle Process Part 2 Process Assessment Model (PAM)
52	IS/ISO/IEC 30105-3 : 2016 ISO/IEC 30105-3 : 2016	Information Technology - IT Enabled Services - Business Process Outsourcing (ITES -BPO) Lifecyle Processes Part 3 Measurement Framework (MF) and Organization Maturity Model (OMM)
53	IS/ISO/IEC 30105-4 : 2016 ISO/IEC 30105-4 : 2016	Information Technology - IT Enabled Serives - Business Process Outsouring (ITES-BPO) Lifecyle Processes Part 4 Terms and Concepts
54	IS/ISO/IEC 30105-5 : 2016 ISO/IEC 30105-5 : 2016	Information Technology - IT Enabled Services Business Process Outsourcing (ITES - BPO) Lifecycle Processes Part 5 Guidelines
55	IS/ISO/IEC 30130 : 2016 ISO/IEC 30130:2016	Software engineering Capabilities of software testing tools
56	IS/ISO/IEC/IEEE 42010 : 2011	Systems and Software Engineering - Architecture Description
57	IS/ISO/IEC/IEEE 42020 : 2019	Software systems and enterprise Architecture processes
58	IS/ISO/IEC/IEEE 42030 : 2019	Software systems and enterprise Architecture evaluation framework

59	IS/ISO/IEC 90003 : 2018	Software engineering Guidelines for the application of ISO 9001:2008 to computer software
SI. No.	**Doc No**	**TITLE**
1	LITD 14 (19326)	Information Technology - Adequacy of Organizational Data Governance and Management Practices
2	LITD 14 (21945) (ISO/IEC 25010)	Systems and Software Engineering Systems and Software Quality Requirements and Evaluation Square System and Software Quality Models First Revision
3	LITD 14 (21946) (ISO/IEC 14764:2022)	Software engineering - Software life cycle processes Maintenance First Revision
4	LITD 14 (21947) (ISO/IEC 15288)	Systems and software engineering System life cycle processes Second Revision
5	LITD 14 (21948) (ISO/IEC TS 20000-5: 2022)	Information technology Service management Part 5 Implementation guidance for ISISOIEC 20000-1 First Revision
6	LITD 14 (21949) (ISO/IEC/IEEE 42010: 2022)	Software systems and enterprise Architecture description First Revision
	Product: Code of Practices : Methods of Test : Terminology : Dimensions : System Standard : Safety Standard : Others : Service Specification : Process Specification : Unclassified :	0 8 3 5 0 5 0 27 3 5 1
	WITHDRAWN	
SI. No.	**IS No. & Year**	**TITLE**
6	IS 13392 : 1992 ISO 6593	Programme flow for processing sequential files in terms of record groups for information processing
7	IS 13553 : 1993 ISO 9127	User documentation and cover information for consumer software packages for information processing systems
8	IS 13557 (Part 14) : 1993 ISO 2382-14	Information processing systems - vocabulary Part 14 reliABility maintenance and availABility
9	IS 13557 (Part 18) : 1999 ISO 2382-18	Information processing systems - vocabulary Part 18 distributed data processing
10	IS 14638 : 1998 ISO/IEC 9126	Information technology - Software product evaluation - Quality characteristics and guidelines for their use

11	IS 14692 (Part 1) : 1999	Information technology - vocabulary Part 1 fundamental terms
	ISO/IEC 2382-1	
12	IS 1885 (Part 52/Sec 2) : 1980	Electrotechnical vocabulary Part 52 data processing Sec 2 arithmetic and logic operations
	ISO 2382-2	
13	IS 1885 (Part 52/Sec 7) : 1980	Electrotechnical vocabulary Part 52 data processing Sec 7 digital computer programming
	ISO 2382-5	
14	IS 1885 (Part 52/Sec 10) : 1980	Electrotechnical vocabulary Part 52 data processing Sec 10 data communication
	ISO 2382-10	
15	IS 1885 (Part 52/Sec 11) : 1981	Electrotechnical vocabulary Part 52 data processing Sec 11 operating techniques and facilities
	ISO 2382-10	
16	IS 1885 (Part 52/Sec 13) : 1980	Electrotechnical vocabulary Part 52 data processing Sec 13 analogue and hybrid computing
	ISO 2382-19	
17	IS 1885 (Part 52/Sec 14) : 1983	Electrotechnical vocabulary Part 52 data processing Sec 14 computer graphics and computer micrographics
	ISO 2382-13	
18	IS/ISO/IEC/TR 20000-4 : 2010	Information Technology Service Management Part 4 Process Reference Model
	ISO/IEC 20000-4 : 2010	
19	IS/ISO/IEC/TR 20000-9 : 2015	Information Technology Service Management Part 9 Guidance on the Application of ISO IEC 20000-1 to Cloud Services
	ISO/IEC 20000 : Part 9 : 2015	

Comm	Basic Details	Clause	Paragraph No.	Type of Comment	Comments/Suggestions along with Justification for the Proposed Change	Proposed Change/Modified Wordings	Proposed Comment Status	Remarks
1	Name: G. Mayil Muthu Mayil Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	0.3	4	Editorial	Punctuation mark **(.)** is missing. 'The purpose of the standard is to define the core practices and processes which organizations must demonstrate in respect of data governance and management, as well as define the requirements and method of assessment to determine if those practices and processes being performed at a level that is defined to be adequate' Comment: Suggestion to add the punctuations in the specified clauses.	'The purpose of the standard is to define the core practices and processes which organizations must demonstrate in respect of data governance and management, as well as define the requirements and method of assessment to determine if those practices and processes being performed at a level that is defined to be adequate **(.)** '	Rejected	No such punctuation issue found in the draft under circulation.
2	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	5	8	Editorial	Punctuation mark **(.)** is extra 'The objective of the practices in the Planning & Governance Practice group is to establish the over-arching data governance structure, governance strategy, policies & processes that are needed for the organization to achieve its objectives of efficient oversight of the usage of organizational data assets and the compliance with applicable regulations..' Comment: Suggestion to remove extra punctuations in the specified clauses.	'The objective of the practices in the Planning & Governance Practice group is to establish the over-arching data governance structure, governance strategy, policies & processes that are needed for the organization to	Rejected	No such punctuation issue found in the draft under circulation.

						achieve its objectives of efficient oversight of the usage of organizational data assets and the compliance with applicable regulations(**.**)'		
3	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	6.5	10	Editorial	Replace the Punctuation mark **(.)** with comma (**,**). 'Document management entails capture, storage, retention and management of documents and include functions such as intake, drafting, versioning, collaboration. internal and external sharing, security, metadata, access rights, workflows, search, repository organization, archiving and retention policy management, along with reporting and auditing on these functions'. Comment: Suggestion to replace the punctuations (.) with (,) in the specified clauses.	Document management entails capture, storage, retention and management of documents and include functions such as intake, drafting, versioning, collaboration(**,**) internal and external sharing, security, metadata, access rights, workflows, search, repository organization, archiving and retention policy management, along with reporting and auditing on these functions	Accepted	**Changes made in the document.**
4	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #:	6.5.1	11	Editorial	Starting alphabet of 'timely' should be 'T" 'Deployed Document & Content Management Capability: timely availability of consistent and current Document & Content type resources across the organization' Comment: Suggestion to replace the small ('t') with ('T').	Deployed Document & Content Management Capability: **Timely** availability of consistent and current	Rejected	No such punctuation issue found in the draft under circulation.

	LITD_2023-10-117787					Document & Content type resources across the organization.		
5	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	8	13	Editorial	Remove extra punctuation mark **(.)** in below sentence before word <group> 'The Foundational Practice group can be considered as a pre-requisite (.) group.' Comment: Suggestion to remove the extra punctuation (.) in the specified clauses.	'The Foundational Practice group can be considered as a pre-requisite group.'	Rejected	No such punctuation issue found in the draft under circulation.
6	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	2	5	Editorial	In the reference section **ISO/IEC** numbers are incompletely mentioned with punctuation (:). ISO/IEC 33001: ISO/IEC 33002: ISO/IEC 33003: **Comment: Remove the extra punctuations (:).**	**ISO/IEC 33001 ISO/IEC 33002 ISO/IEC 33003**	**Rejected**	The numbers have been moved to Annexure B as applicable.
8	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	Header	3	Editorial	**Data Mismatch** on the page 1 header section in '**Doc: LITD 14 (19326)**' while in header section of page 3 it is written '**Doc: LITD 14 (19386)**' **Formate Mismatch On page 1 formate of text on header section is 'Doc: LITD 14 (19326) IS xxxxx : 2022' while on Page 3 formate is 'XXXXX:2022 Doc: LITD 14 (19386)' different**		Rejected	No such mismatch exists. No formate mismatch could be found.
9	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #:	3.1	5	Editorial	**Uniformity in the text case is not observed,** In Sections 3.1 to 3.6 clause the starting alphabet is in Lower case while in sections 3.7 to 3.9 clause al letter starts in Upper case. '3.1 process set of interrelated or interacting activities which transforms inputs into outputs		Rejected	This is a Terminology Section. There are three terms defined here. All terms staring with

	LITD_2023-10-117787							capital letter
10	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	3.2	5	Editorial	3.2 process attribute / process quality attribute measurable property of a process quality characteristic		Rejected	This is a Terminology Section. There are three terms defined here. All terms staring with capital letter
11	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	3.3	5	Editorial	3.3 process attribute outcome observable result of achievement of a specified process attribute		Rejected	This is a Terminology Section. There are three terms defined here. All terms staring with capital letter
12	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	3.4	5	Editorial	3.4 process attribute rating judgement of the degree of achievement of the process attribute for the assessed process		Rejected	This is a Terminology Section. There are three terms defined here. All terms staring with capital letter
13	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-	3.5	5	Editorial	3.5 process capability characterization of the ability of a process to meet current or projected business goals		Rejected	This is a Terminology Section. There are three terms defined here. All terms staring with capital

	117787							letter
14	Name: G. Mayil Muthu Kumaran(stakeholder)

Organisation:
Email: muthu@nic.in
Mobile: 9810119461
Comment ID #:
LITD_2023-10-117787 | 3.6 | 5 | Editorial | 3.6 process capability level characterization of a process on an ordinal measurement scale of process capability | | Rejected | This is a Terminology Section. There are three terms defined here. All terms staring with capital letter |
| 15 | Name: G. Mayil Muthu Kumaran(stakeholder)

Organisation:
Email: muthu@nic.in
Mobile: 9810119461
Comment ID #:
LITD_2023-10-117787 | 3.7 | 5 | Editorial | 3.7 Process capability Level 0: Incomplete process
The process is not implemented or fails to achieve its process purpose. At this level there is little or no evidence of any systematic achievement of the process purpose. | | Rejected | This is a Terminology Section. There are three terms defined here. All terms staring with capital letter |
| 16 | Name: G. Mayil Muthu Kumaran(stakeholder)

Organisation:
Email: muthu@nic.in
Mobile: 9810119461
Comment ID #:
LITD_2023-10-117787 | 3.8 | 5 | Editorial | 3.8 Process capability Level 1: Performed process
The implemented process achieves its process purpose. | | Rejected | This is a Terminology Section. There are three terms defined here. All terms staring with capital letter |
| 17 | | 3.9 | 5 | Editorial | 3.9 Process capability Level 2: Managed process

The previously described Performed process is now implemented in a managed fashion (planned, monitored and adjusted) and its documented information are appropriately established, controlled and maintained.' | | Rejected | This is a Terminology Section. There are three terms defined here. All terms staring with |

								capital letter
18	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	4	7,11	Technical	Suggestion to add **'Operations'** in Data storage & operations section to monitor the overall health of Data in an organization In the Data management practices framework ,'Data storage and operations' is observed while in explaination section 'operations' is missing.Suggestion to explain Data Analytics monitoring process in this section. Datat Analytics is an emerging process that can augment data quality and data governance initiatives by providing a more complete picture of Data health in an organization demanding continuous monitoring of pipelines, profiling of data, reporting,predicting errors and pro-actively preventing them depending on the size of an organization. **Comment:** Suggestion to Add Data Analytics in operations to monitor the overall health of Data in an organization.	**Suggestion to Add below description in 'Operations' section:** **Datat Analytics is an emerging process that can augment data quality and data governance initiatives by providing a more complete picture of Data health in an organization demanding continuous monitoring of pipelines, profiling of data, reporting, predicting errors and pro-actively preventing them depending on the size of an organization.**	**To Discuss**	Analytics is part of the Decision Management Practice.
19	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	7.3.1	12	Technical	**Comment:** Suggestion to include in subclause of '**Outcomes of Data Confidentiality'** should include point regarding: Regular review policies on implemented encrypted solutions in the Enterprise to maintain Data Integrity by avoiding any new security breach.	Suggestion to Add in subclause of **Outcomes of Data Confidentiality:** iv) Policies on regular reviews of implemented encrypted solutions and Enterprise wide key management process to maintain Data Confidentiality by avoiding any new security breach.	**To Discuss**	

					Comment			
20	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	7.4.1	13	Technical	**Comment :** Suggestion to add **Authentication, Authorization and Data breach policies** in **Outcomes of Data Integrity Practice** **Pro-active actions taken on an event of Data breach in order to manitain the integrity of data.**	Suggestion to add **Authentication, Authorization and Data breach policies** in **Outcomes of Data Integrity Practice** **iii) Pro-active actions to be taken in an event of Data breach to maintain the integrity of data.** iv) Authentification and Authorization policies to be implemented.	**To Discuss**	
21	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	8.1.1	14	General	Suggestion to add **'Data Catalogue'** in 8.1.1 (i) Comment : Apart from Business Glossary and Data Dictionary, suggestion to add Data catalogues which helps in organizing structured and unstructured data.	Suggestion to rephrase the point (i) by adding **"Data catalogues'** in 8.1.1 (i). (i) Organizational capability in terms of Business Glossary / Data Dictionary/ Data Catalogue providing understanding on data attributes business terms and usage.	Rejected	Already included
23	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	Title	1	General	The word "adequacy" doesn't seem appropriate to me. It should at best be Guidelines. It should also be decided whether it will serve as a guideline or Standard because the subject matter will undergo changes very fast as data science is evolving at a very fast pace and so also data governance needing thereby so many amendments if it is conceived as a Standard. The guideline may undergo a revision repeatedly within short intervals but only amendments can take place in a Standard which has a shelf life of 5 years at present as per BIS policy environment and keeping number of amendments is quite untidy along with a Standard not for BIS but for user organizations.		To Discuss	

| 24 | Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923 | Fore word | 4 | Gene ral | What is data governance led organisational data management? It appears that a short cut is being adopted by combining the two different terms used in different contexts. If data governance is a policy document and data management is an execution document Therefore, there's always a debate whether data governance is a part of data management or vice versa? In that case data governance is a sub set of data management. In other words, data governance cannot lead the data management but at best can guide data management practices. Time to rethink about this aspect. In addition, there are many different structures of Organisations based on the core activities like making a product or providing services or both. There can be other types based on the way command/instruction is carried out. So, the Foreword of formulated Standard does not throw any light on different organisational structures and implementation of data governance into those. A generalised approach for so many different types of organisations may not be applicable and acceptable by different types of organisations. | | Reject ed | There were number of discussions in this respect in the initial meetings and the panel felt that the current method is the best way to move forward. |
| 25 | Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923 | INTR ODU CTIO N | 5 | Gene ral | What is the purpose of keeping this Chapter when what has been stated here can be incorporated into the Foreword? Further, 0 numbering has been assigned to different sub chapters under this chapter which clearly indicates that it is not part of the document when it was first envisaged and is a supplementary addition. | | To Discus s | |

26	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	1	6	General	The scope is too narrow. It should be wide enough to accommodate various organizational structures etc. Organization's type , size and nature put different demands on data governance and management , hence putting all under this Standard is not feasible. For instance, data size depends on the organization's size and accordingly the requirements of data governance change. Similarly, the nature of the organization and its activities play a dominant role in how the data is managed. Thus generalizations will lead to errors while going for execution.		To Discuss	
27	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	3	6	General	This section is too short. It is agreeable that user needs to search for vocabulary part in some other standard, but at least terms which are mostly used should be included so that user need not to drift away to different documents. A few of this inclusion could be data governance, data planning, data privacy, data integrity, metadata and so on. For instance, data governance can have different connotations depending upon the context. Similarly, data privacy can be a sub set of data integrity which in itself is a very wide term and can include data confidentiality as well. Again, data regulatory compliance can be a subject in itself in data governance but no one can appreciate it by the mere use of this term at some place in this document.		To Discuss	
28	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	4	5	General	The hierarchical significance of the Practice Group will help tremendously to an organization. In Private/Governmental Organizations, if no hierarchy is detailed for data Governance, these practice Groups will not yield the desired results. Because everybody reports to someone and that someone is also responsible to		To Discuss	

| | | | | | some other one.

For example, there is a data manager who has the functional authority in an organization and is reporting to functional head in any vertical. This post is parallel to line hierarchy handling the core functions. Since the functional head is responsible for policy formulation, budgeting and other important aspects and if data manager suggests some improvement in the name of data management, it can be opposed by the other groups in the name of data privacy, data confidentiality and so on. So, a clear-cut data governance/data management hierarchy should be envisaged or be talked about in this document. Merely forming groups will not be sufficient for handling data governance and its management. Same applies to Governmental Organizations as well. Minimum a tree chart will be helpful. | | | |
|---|---|---|---|---|---|---|---|---|
| 29 | Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923 | 4 | 5 | General | Use of the word "oversight" in the3rd line under para "5 Practice Group – Planning & Governance" is giving a different and opposite meaning and should be replaced by a suitable and more appropriate word. Also delete "Practice - Data Governance" at the end of para which seems redundant. | | Accepted | Changes made in the document. |
| 30 | Name: C.K.Varma(stakeholde r) Organisatio n: Email: ck_varma @yahoo.co .in | 5.1 | 8 | General | An example below each sub point will provide more clarity and comprehension to what has been suggested under each system. This will also help identifying any overlapping of functions of different Practice Groups. It will also be appropriate if a simple suggestive tree diagram may be provided for each practice | | To Discus s | |

	Mobile: 9868603923				group for better clarity.			
31	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	5.2	8	General	Under this head in place of "longer time horizon" some quantitative figure can be substituted to give better edge to the data planners.		To Discuss	
32	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	6	9	General	The name of this practice group is long and complex. For better comprehension and remembrance, simple name may be thought of. In fact, it contains data processes and execution part of data science and accordingly a simpler and suggestive name can be considered.		To Discuss	
33	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	6.1	9	General	In most of the organisations, most of the decisions are not data driven. It is better to incorporate better practice so that decision management becomes data driven and more objective. This can be a game changer if decisions taken can be pre analysed for the objectives to be achieved before their actual implementation.		To Discuss	
34	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	6.2	9	General	The description here is too bulky that enablers themselves may tangle. Idea is therefore to use lesser terms but to an effective pitch so that data architecture remains simple yet effective.		To Discuss	
35	Name: C.K.Varma(stakeholder) Organisation: Email:	6.5.1	11	General	How Point e) under this is part of this outcome? It appears a duplicity here because it is already part of 6.4.1 e).		To Discuss	

	ck_varma@yahoo.co.in Mobile: 9868603923							
36	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	6.6.1	12	Editorial	Point d) under this is a summary of all above points and should be kept alone or be eliminated altogether.		Accepted	Changes made in the document.
37	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7	12	Ge	The word Data Protection has been added here while it is not existing in Fig 1.		To Discuss	

38	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.1	12	General	Is data classification really needed now in view of terming data as asset and also big data for the organization? This aspect needs to be explored fully to prevent unnecessary concentration of this aspect of data. Every part and every inch of data is important now and with the use of data cleaning the nuisance of unwanted data can be get rid of.		To Discuss	
39	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.2.1	13	General	What is PII in b), c) and d)?		To Discuss	
40	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.4	13	General	An example has been given under this. Why the same pattern can not be followed under all other practices?		To Discuss	
41	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.4.1	14	Editorial	What is "granularity for integrity protection" as mentioned in 7.4.1 a)? Needs to be defined. Similarly a standard for integrity protection as "Checksums" has been mentioned. If it is a general term should be defined properly or eliminated completely.		Accepted	Changes made in the document.

42	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.5.1	14	General	Why f) can not be part of a)? Just think and if possible, make it part of a).		To Discuss	
43	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.6	14	General	The last line under this para is to be deleted, as it appears a typo error.		To Discuss	
44	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	7.6.1	14	General	Data regulatory compliance is done as per the standard practice of the bodies undertaking such compliance. Hence defining too many outcomes will create a problem to the implementation group. Hence to be kept minimum with the addition of "as per the standard practice of the third party carrying out the compliance".		To Discuss	
45	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	8	14	General	What is the meaning of "pre requisite group" as mentioned here? This part is creating a question for the adequacy of other groups. If it is significant then consider classifying other groups also in terms of their importance as mentioned earlier.		To Discuss	
47	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	8.1	15	General	I am wondering why lot of explanation has been made here! Similar treatment should be given to other practice groups or an appendix can be added to this standard wherein all such terms can be described with examples like data analytics which also has many subparts like descriptive, diagnostic, predictive and prescriptive types of data analytics and so on.		To Discuss	

48	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	8.1.1	15	General	Many terms have been described here which can be shortened for user comfort.		To Discuss	
49	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	8.2.1	16	General	Under this, in point c) standards, guidelines, best practices and specifications have all been mentioned. May kindly see for exclusion if any.		To Discuss	
50	Name: C.K.Varma(stakeholder) Organisation: Email: ck_varma@yahoo.co.in Mobile: 9868603923	9	16	General	Under this performed and managed levels have been mentioned. Unless there is differentiation defined, it is not understood and appreciated which is better. If one reads the two levels under terminology, this clarity is not gained and therefore desired purpose may not be served. The level of objectivity therefore needs to be enhanced at definition level.		To Discuss	
51	Name: G. Mayil Muthu Kumaran(stakeholder) Organisation: Email: muthu@nic.in Mobile: 9810119461 Comment ID #: LITD_2023-10-117787	7.3	12	Editorial	7.3 Practice – Data Confidentiality The objective of this practice is to protect data against unintentional, unlawful, or unauthorized access, disclosure, or theft. There must be clearly defined and standardized methods to encrypt data based on its classification, and a well-defined and clearly documented key management process. Comment: Above highlighted text is grey in color.Suggestion to change the font colour to black.		Rejected	No alternative text provided

52	Name: Ashwini Panwar Email: ashwini.panwar@alayalegal.com Mobile: 8949102685	7.5.1	f	General	i. The 'availability of documented data retention and disposal policy' would not suffice as the Outcome of Data Availability Practice. ii. Data retention and disposal policy is required not only from the perspective of 'confidentiality' or privacy' but also from the perspective of the larger issue of sustainability and net zero. In this context, may we mention that the storage and computation of data by data centres affects the environment in the following ways: (a) There is consumption of vast amounts of energy and electricity for powering the servers, networking and storage equipment. These servers consume significant energy to function. (b) Data centres consume huge amounts of water through cooling processes to prevent overheating. (c) The e-waste disposed by these data centres can cause significant GHG emissions and releases toxic substances as well. (d) The Cloud infrastructure alone has a greater carbon footprint than the airline industry. Deletion or destruction is a very essential aspect of data management. The standards should provide for various levels of data disposal.	i. The outcome should list down proper practices for retaining and disposing data. The outcomes may be based on ISO or NIST standards for data disposal. These practices and outcomes should consider sustainability factors as well. The following outcomes may be considered for data disposal: a. Data Deletion Strategy b. Secure Data Deletion Methods involving techniques overwriting, deletion, destruction based on the storage media being used. c. Regular Audit and Compliance Checks to implement data deletion procedures. Have in place mechanisms for reporting and tracking data deletion activities and compliance metrics.	To Discuss	