BUREAU OF INDIAN STANDARDS

Smart Infrastructure Sectional Committee, LITD 28

Meeting 27 (Virtual meeting)

Meeting link:
https://bismanak.webex.com/bismanak/j.php?MTID=m57d7394c78f60c74e27c8652ec9b1bb7

📅	07 Aug 2023	Meeting number: **2514 522 0964**
🕐	1100 - 1300h	Password: **Litd28@27**

1. **Chairman:** Prof Inder Gopal, IISc, Bengaluru
2. **Member Secretary:** Devansh Deolekar

MINUTES

Sl. No. Name (organization)
3. Sh. Durgaprasad (TCS)
4. Dr. A Paventhan (ERNET)
5. Sh. Amarjeet Kumar (Shrama Technologies)
6. Sh. Reji Kumar Pillai (ISGF)
7. Sh. Hemanth Thavarae (TCS)
8. Sh. Jyotirmay Dutta (IUDX, IISc)
9. Dr. Vinosh Babu James (Qualcomm)
10. Sh. Nitin Sharma (SESEI)
11. Ms. Priya Upadhyay (NIUA)
12. Dr. Punit Rathod (Qualcomm)
13. Sh. Vasanth Rajaraman (IUDX, IISc)
14. Dr. Kanwar Jit Singh (Tejas Networks Limited)
15. Sh. Ravindra Chaturvedi (Renesas Electronics)
16. Sh. Kishor N. Narang (Narnix Technolabs)

ITEM 1   WELCOME

Welcome: Member secretary welcomed the members to the 27th meeting of LITD 28.

Opening remarks: Prof. Inder Gopal, Chairperson of the committee, in his opening remarks emphasized that as per the present thought process of 'Smart cities mission' the number of Smart Cities are going to expand from 100 cities to 4000+ cities, encompassing all the ULBs.This expansion is going to make LITD 28 work extremely important. The committee has already published a set of standards in certain areas and these standards are going to be very influential in smart cities. He apprised the committee that new work has been initiated on data models and compliance, which shall be an integral part of the template that will be provided to the smart city mission and next set of smart city activities. He further urged the members to contribute more actively towards the development of standards planned for the future.

ITEM 2   FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1   The committee formally approved the minutes of the 26th meeting of LITD 28 held on 30 January 2023.

ITEM 3   DRAFT STANDARDS COMPLETED P-DRAFT

The committee noted the information regarding the P-drafts issued [Doc Nos: LITD 28(22596), LITD 28(22599), LITD 28(22601), LITD 28(22602), LITD 28(22606)] as given in item 3 of the agenda.

Decision/action item:

The committee reviewed the documents and decided as given below.

S. No.	Doc No	Title	Decision Taken
1	LITD/28/22596	Municipal Governance Part 3: Building Plan Approval Section 6: Taxonomy	Approved the document as Wide circulation draft (to be circulated for 60 days)
2	LITD/28/22599	Municipal Governance Part 3: Water and Sewerage Section 5: Taxonomy	Approved the document as Wide circulation draft (to be circulated for 60 days)
3	LITD/28/22601	Municipal Governance Part 3: Trade License Section 4: Taxonomy	Approved the document as Wide circulation draft (to be circulated for 60 days)
4	LITD/28/22602	Municipal Governance Part 3: Fire No Objection Certificate NoC Section 2: Taxonomy	Approved the document as Wide circulation draft (to be circulated for 60 days)
5	LITD/28/22606	Municipal Governance Part 3: Municipal Grievance Redressal Section 3: Taxonomy	Approved the document as Wide circulation draft (to be circulated for 60 days)

ITEM 4   DRAFT STANDARDS COMPLETED WC-DRAFT STAGE

S. No.	Doc No	Title	Last date for comments
1	LITD/28/21729	Smart Cities - GIS Part 2 Self-Assessment of GIS Reference Architecture	Approved the document for printing.
2	LITD/28/21132	Unified Data Exchange Part 3 API Test Suites Sec 1: Resource Access Service	Approved the document for printing.
3	LITD/28/21174 (IS 18010 : Part 5 : Sec 1: 2020)	Unified Digital Infrastructure Unified Last Mile Communication Protocols Stack Part 5 Network Access Layer (IEEE 802.15.4) Section 1 Specification Amendment -1	Committee discussed the comment received from TCS and referred it to Panel 1 to take further action required towards finalization of the amendment.

ITEM 5   STATUS UPDATE FROM PANELS AND STUDY GROUPS

5.1 P1- Last Mile Communication Protocols & P14- Data Models Panel (Sh. Amarjeet Kumar, Convener)

Sh. Amarjeet Kumar, Convener, informed the committee that a meeting of the panel 1 and 14 was called on 25 July 2023. Discussions were held on Wide Circulation Document of Amendment 01 to (IS 18010: Part 5: Sec 1: 2020). He further informed that WPC has given additional MHz spectrum, which is included in the above amendment. Further, there were other regulatory changes were also made by WPC, the panel was requested to share their comments on that however no comments have been received so far. In the meeting there was a discussion on application layer draft, prepared and presented by Sh. Uttam Kotadiya from Secure Meters. Comments have been sought from the Panel members.

He apprised the committee that earlier there was a separate panel on Gateway which was merged into Panel 1. There was no activity after the merger. In due course, interest was shown by the panel that work related to Gateway may be taken up. The panel discussed it and called for the creation of a sub-group within the panel. Also the panel decided to capture its requirement, deliverables and scope in due course. He informed that, a meeting related to Gateway shall be held at the earliest, where the complete sectional committee shall be invited, so that the interested members may contribute for the sub-group.

Sh. Amarjeet Kumar, said that he has been getting inputs to include other communication technologies also, i.e., different communication technologies may be added under the same reference architecture and work harmoniously, such as PLC. He also urged to have liaison agreement MoU with other communication technologies such as Wi-SUN Alliance, OMA alliance (custodian of LwM2M) and DLMS, so that it will help our work to be made known to global audience also.

Sh. Amarjeet Kumar informed the committee that Panel 14 is going to relook at the work and shall come up with a two pager defining the scope, work and deliverables of the panel.

5.2 P12 - Data exchange (Sh. Vasanth Rajaraman, Convener)

Sh. Vasanth Rajaraman, Convener, informed the committee that panel 12 has shared the P draft for catalogue compliance specification. The panel was waiting for any comments on resource access service (LITD/28/21132), however as there were no comments, so they are going to work on section 3, which is related to the authorization server. The data exchange specification comprises of three components- data discovery service, data access service and data authorization policy management service. Out of these three services the standardization work related to first two of them has been done. He informed the panel will start with the third one, i.e. data authorization policy management service.

ITEM 6   REVIEW OF THE PUBLISHED STANDARDS

6.1   The committee noted the information regarding the Programme of work of LITD 28 as given in Item 6 of the agenda.

It was informed by the member secretary that the following standards were published in 2020 and hence these standards are due for periodic review.

Sl. No.	IS No	Title
1	IS 18000:2020	Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)
2	IS 18003 (Part 1):2020	Unified Data Exchange Part 1 Architecture
3	IS 18010 (Part 1):2020	Unified Digital Infrastructure - Unified Last Mile Communication Protocols Stack Part 1 Reference Architecture(UDI - ULMCPS - RA)
4	IS 18010 (Part 5/Sec 1):2020	Unified Digital Infrastructure Unified Last Mile Communication Protocols Stack Part 5 Network Access Layer (IEEE 802.15.4) Section 1 Specification

Decision/Action item

The committee assigned the review of the other standards as follows:

Sl. No.	IS No	Title	Decision regarding review
1	IS 18000:2020	Unified Digital Infrastructure - ICT Reference Architecture (UDI-ICTRA)	Review of the standard is assigned to Panel 6. Committee requested the panel to expedite the review.
2	IS 18003 (Part 1):2020	Unified Data Exchange Part 1 Architecture	Review of the standard is assigned to Panel 12. Committee requested the panel to expedite the review.
3	IS 18010 (Part 1):2020	Unified Digital Infrastructure - Unified Last Mile Communication Protocols Stack Part 1 Reference Architecture (UDI - ULMCPS - RA)	Review of the standard is assigned to Panel 1. Committee requested the panel to expedite the review.
4	IS 18010 (Part 5/Sec 1):2020	Unified Digital Infrastructure Unified Last Mile Communication Protocols Stack Part 5 Network Access Layer (IEEE 802.15.4) Section 1 Specification	Committee discussed the comment received from TCS and referred it to Panel 1 to take further action towards finalization of the amendment.

ITEM 7   INTERNATIONAL ACTIVITIES

7.1 The committee noted the information regarding ISO/IEC Committees mirrored by LITD 28 asgiven in item 7.1 of the agenda. It was informed by the member secretary that LITD 28 is thenational mirror committee to the following technical committees of ISO and IEC:

a)   IEC SyC Smart Cities (IEC SyC SC)

b)   ~~IEC SyC Communication Technologies and Architectures (IEC SyC COMM)~~

c)   ISO/IEC JTC 1/WG 11 Smart cities

7.1.1 TRANSFER OF WORK RELEVANT TO IEC SYC COMMUNICATION TECHNOLOGIES & ARCHITECTURE (SYC COMM)

The committee noted the constitution of Sub-Committee within LITD 13 'Interconnection and Information exchange among IT equipment'. It was informed that this Sub Committee shall liaison with IEC SyC Communication Technologies & Architecture (IEC SyC COMM). It was requested that the members may give their nomination for the subcommittee. The committee noted the details of working groups under ISO IEC committees related to Smart Cities as given in Annex 2 of the agenda.

7.2   The committee reviewed the following document under ballot:

Doc Type	Ref and Title	Due date for vote	Remarks
CD	IEC SRD 63302-1 ED1: Systems Reference Deliverable (SRD) - Use cases collection and Analysis: Intelligent operations center for Smart Cities - Part 1 : High Level Analysis (Annex 3)	11-08-2023	This document provides use case collection and analysis, identifies the market relationships of relevant stakeholders, scopes out capabilities and a reference model of IOC, and proposes the requirements for standards development in this field. This document is for use by authorities, solution providers, utilities, citizens, and other relevant stakeholders, to identify good practices regarding IOC, and how they could implement them.
NP	PNW SYCSMARTCITIES-300 ED1: Smart Cities Reference Architecture (SCRA) (Annex 4)	18-08-2023	This NP proposes a Smart Cities Reference Architecture (SCRA), which would be template for architectures of various smart cities
NP	PNW TS SYCSMARTCITIES-295 ED1: Systems Reference Deliverable (SRD) Application of IEC SRD 63235 - Concept system building for energy challenge in smart city (Annex 5)	08-09-2023	This document, which is a Systems Reference Deliverable (SRD), provides the concept system of energy challenge in smart city, using the methodology framework and development processes in IEC SRD 63235. This document is applicable to development and improvement of the terms and concepts relevant to energy challenge in smart city.
NP	PNW TS SYCSMARTCITIES-297 ED1: Gap Analysis on Standards Related to City Information Modelling and Urban Digital Twins (Annex 6)	08-09-2023	The Technical Specification provides gap analysis on standards related to City Information Modelling and Urban Digital Twins. This Technical Specification: • defines concepts of City Information Modelling and Urban Digital Twins; • collects the case studies how cities are using City Information Modelling and Digital Twin technologies; • identifies the standards being used; • scopes out the requirements for new standards and for possible revision of existing standards; and • provides recommendations for Standard Development Organizations (SDOs).

7.3 The Committee was informed about email dated 25 July 2023 sent by LITD 28 and noted the information of forthcoming international meeting and about their interest in participating in these meetings, as per the following details:

Month	Location	TC /SC
18 -20 October 2023	Cairo (Egypt)	87th IEC GENERAL MEETING (Face-to-face and Virtual)

The committee decided that the based on the interest from the members, delegation for the above meeting may be approved by the chairman.

ITEM 8   COMMITTEE COMPOSITION

The committee noted its composition as given in Annex 7 of the agenda.

ITEM 9   DATE AND PLACE FOR THE NEXT MEETING

8th November 2023, Forenoon.

ITEM 10   ANY OTHER BUSINESS

There being no other business, the meeting came to an end with the vote of the thanks to the chairperson and members for their active participation and contributions.