BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Equipment for Electrical Energy Measurement and Load Control Sectional Committee, ETD 13	46th	Thursday	16/12/2024	10:30 hrs	Hybrid mode **Place:** BIS, HQ, New Delhi **Joining link:** https://bismanak.webex.com/bismanak/j.php?MTID=m085c041bfe876107e0ff86716bbf9452 **Meeting number:** 2513 893 1544 **Password:** ETD@13

CHAIRPERSON: Shri Surendra Jhalora   **MEMBER SECRETARY**: Shri Emanuel Abhishek Murmu

Item 1 REVISION OF/ AMENDMENTS TO EXISTING INDIAN STANDARDS

Sr. No.	Item	Background	Decision during last meeting	Decision Taken
1.	Review IS 15959 series of standards and aligning them with corresponding IS/IEC 62056 series of standards to make the standards independent of any agency, organisation or testing tool	A proposal was received from CPRI regarding the integrational of SMITHA-BSMA, an indigenous testing tool (for metering protocol related to IS 15959 series as IS 16444 series) is jointly developed by CPRI and CDAC, into the existing standards. This issue was discussed in the Panel 1 meeting held on July 26th at CPRI, Bangalore, and a P-draft document has been prepared by the Panel, which includes this proposal as well as other comments received during the preliminary draft circulation. With regards to concerns raised by some committee members regarding the legal implications of deploying and commercializing an Indigenous test tool, which is based on the IEC 62056 standard, derived from the content of DLMS UA.	Detailed deliberations were held regarding the use of acronyms like DLMS, COSEM, DLMS UA, inclusion of SMITHA tool as a replacement to DLMS CTT for conformance testing as mentioned in Annex K of IS 15959-1 and removal of the names of any software test tools from IS 15959 standards etc. The committee decided on the following: 1. A working group to be formed to review IS 15959 series of standards and align them with corresponding IEC 62056 series of standards to make them independent of any agency, organisation or testing tool. 2. BIS may explore the possibility for obtaining clarification from IEC TC 13 support to inquire whether the terms DLMS/COSEM are	*Committee may discuss*

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		Chairman has informed that the project leader of SMITHA test tool has approached Hon'ble Karnataka High Court against CPRI management wherein the SMITHA development has also been referred. Hence as the DG of CPRI, the Chairman has recused himself from deciding on this matter. With respect to any potential implications on the SMITHA tool concerning any intellectual property rights (IPR) violation issues that may arise, CPRI refused to take this responsibility. However, Mr K Jiju from CDAC-T informed that CDAC is ready to take responsibility w.r.t. IPR issue, if any. The Chairman also suggested that the above matter may be discussed and decided under the chairmanship of any other member. The possibility will be explored by BIS and accordingly a meeting would be scheduled to discuss on this particular agenda. The committee has decided that the process of revision of IS 15959 (Part 1) incorporating all the existing amendments (from Amd. No. 01 to 05) shall continue without waiting for any decision or action on SMITHA tool. The requirements related to proposed change for SMITHA tool shall be deleted for the time being in proposed amendment. Same can be reconsidered later depending on the decision made by committee.	restricted terms due to trademark registration. A working group was formed under the convenorship of Shri S. Jhalora to review IS 15959 series of standards and align them with corresponding IS/IEC 62056 series of standards. The working group has had 03 meetings and have formulated draft amendments to IS 15959 Parts 1, 2 and 3 with editorial changes (**Annex-1**). Also, since the DLMS/ COSEM and DLMS UA terms are being removed and replaced by relevant clauses of the IS/IEC 62056 standards, clarification from IEC TC 13 support regarding the DLMS/COSEM trademark registration need not be sought.	

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		As for the matter regarding inclusion of SMITHA tool into the standard, it shall be deliberated upon separately and shall be added as an amendment to the revised IS 15959 (Part 1), after approval from the committee.		

Item 2 ANY OTHER BUSINESS

<u>**ANNEX-1**</u>

AMENDMENT NO. 6 NOVEMBER 2024
TO
IS 15959 (Part 1): 2011 DATA EXCHANGE FOR ELECTRICITY METER
READING, TARIFF AND LOAD CONTROL - COMPANION
SPECIFICATION
Part 1 Static Energy Meter

(*Foreword, para 5*) – Delete.

(*Foreword, para 7*) – Delete.

(*Foreword, para 8*) – Delete.

(*Page 1, clause 1.2, line 1*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 1, clause 1.3, para 1*) - Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

[*Page 1, clause 1.3, Sl No. (a)*] – Delete 'DLMS'.

[*Page 1, clause 1.3, Sl No. (c)*] – Substitute the following for the existing:
'The necessary country/project specific codes are included in Annex A for specified usage of electricity meters'.

(*Page 1, clause 3.3 and clause 3.4*) – Substitute 'IS/IEC 62056-6-1 and IS/IEC 62056-6-2' for 'DLMS UA, Blue Book'.

(*Page 2, clause 3.10*) – Delete ', for example DLMS/COSEM'.

(*Page 2, clause 3.17*) – Substitute 'IS/IEC 62056-42, IS/IEC 62056-46, IS/IEC 62056-4-7 and IS/IEC 62056-5-3' for 'DLMS UA, Green Book'.

(*Page 3, clause 3.23*) – Delete 'also DLMS UA, Yellow Book and'.

(*Page 4, Table 2, Note 1*) – Substitute '4.8.2' for '4.6.2'.

(*Page 4, Table 2, Note 2*) – Delete.

(*Page 5, clause 5.4.1, line 1*) – Substitute the following for the existing:
'As per 4.2 of IS/IEC 62056-6-2, two referencing methods are provided to access the meter data, namely Logical name (LN) referencing and Short name (SN) referencing.'

(*Page 5, clause 6*) – Substitute 'USAGE OF IS/IEC 62056 PROVISIONS' for 'USAGE OF DLMS/COSEM PROVISIONS'.

(*Page 6, clause 7, line 1*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 7, clause 7.5.1, line 1*) - Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 8, clause 8.1.1, line 2*) – Substitute the following for the existing:
'The India-specific reference table, listing all possible events with corresponding identifiers, is defined in Annex G'.

(*Page 8, clause 8.1.2*) – Substitute the following for the existing:
'Value group E provides a flexible framework for classifying events into various categories according to specific requirements. This group currently supports 10 values (0...9), allowing users to define up to 10 distinct event categories'.

(*Page 8, clause 8.2.3, line 2*) – Substitute the following for the existing:
'Currently, 10 values (0...9) are supported for group E, allowing to define up to 10 event log categories, as specified in Table 11'.

(*Page 9, clause 9.1, line 1*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 10, clause 11.1, line 1*) – Delete 'in DLMS COSEM'.

(Page 10, clause 11.2.2, line 1) – Substitute 'IS/IEC 62056' for 'DLMS'.

(Page 10, clause 11.2.3, line 1) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 15, clause C-4*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 17, clause D-3.1*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 20, clause E-3.1*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 28, Annex H*) – Delete the following standards from the list of referred Indian/International Standards:

DLMS UA 1000 -1 ed.9, 2009	Blue book, COSEM identification system and interface classes
DLMS UA 1000 -2 ed.7, 2007	Green book, DLMS/COSEM architecture and protocols
DLMS UA 1002: ed.1, 2003	White book, COSEM Glossary of terms
DLMS UA 1001 -1:2007 ed-3	Yellow book, companion testing process

[*Page 29, Annex J, clause J-1.1 (a)*] – Delete 'DLMS/COSEM'.

[*Page 29, Annex J, clause J-1.1 (e)*] – Substitute the following for the existing:
'HHUs shall provide IS/IEC 62056 server interface to the BCS (Base Computer System — the Data collection software) over a suitable communication medium (local serial port implementing the IS/IEC 62056 HDLC layer stack is suggested)'.

[*Page 29, Annex J, clause J-1.1 (g)*] – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 29, Annex K*) – Substitute Annex K for the existing:

'Meters claiming conformance to this specification shall be required to

a) conform to the base standards IS/IEC 62056 (Parts 21, 42, 46, 47, 53, 61 and 62) as certified by any suitably validated verification tool.

b) conform to the specific requirements and constraints of this standard; as certified by any accredited laboratory having facilities for the purpose.

This certification shall ensure:

a) all mandatory parameters applicable to the category of the meter under test are implemented;

b) all data types where specified are conforming to this document;

c) all application associations are implemented as specified in this standard with all specified services supported;

d) association object lists conform to this document with access rights and OBIS codes
as specified here; and

e) event related objects are implemented with Event identifiers as specified in the Event reference tables in this standard.

Note: For validation of verification and compliance tool, the technical guide shall be followed'.

(*Page 33, Annex M*) – Delete the following acronyms/abbreviations and description from the list:

DLMS   Device Language Message Specification
DLMS UA   Device Language Message Specification User Association
CTT   Conformance Test Tool

AMENDMENT NO. 3 NOVEMBER 2024
TO
IS 15959 (Part 2): 2016 DATA EXCHANGE FOR ELECTRICITY METER READING, TARIFF AND LOAD CONTROL - COMPANION SPECIFICATION
Part 2 Smart Meter

(*Page 1, clause 1.1, line 9*) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 1, clause 2*) – Delete the reference of the following:

 DLMS UA   COSEM Interface Classes and OBIS
 1000-1 Ed. 12.0   Object Identification System

(*Page 2, clause 5, para 1, line 2*) – Substitute 'IS/IEC 62056' for 'DLMS/COSEM'.

(*Page 2, clause 6, para 1, line 2*) – Substitute 'IS/IEC 62056-6-2' for 'DLMS/COSEM'.

(*Page 2, clause 6, para 1, line 5*) – Delete 'DLMS/COSEM'.

(*Page 12, Table A13, Note 9*) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 18, Table A27, Note 9*) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 19, Table A28, Item No. 1.0, col 2*) – Substitute 'IS/IEC 62056 (Parts 21, 42, 46, 4-7, 5-3, 6-1 and 6-2)' for 'DLMS/COSEM (IEC 62056)'.

(*Page 19, Table A29, Item No. 1.0, col 2*) – Substitute 'IS/IEC 62056 (Parts 21, 42, 46, 4-7, 5-3, 6-1 and 6-2)' for 'DLMS/COSEM (IEC 62056)'.

(*Page 20, Fig. 4, Block 3*) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 20, Fig. 5, Block 2*) – Substitute 'IS/IEC 62056' for 'DLMS'.

AMENDMENT NO. 1 NOVEMBER 2024
TO
IS 15959 (Part 3): 2017 DATA EXCHANGE FOR ELECTRICITY METER
READING, TARIFF AND LOAD CONTROL - COMPANION
SPECIFICATION
Part 3 Smart Meter (Transformer Operated kWh and kVARh,
Class 0.2 S, 0.5 S and 1.0 S)

(*Page 1, clause 1.1, line 3*) – Substitute 'IS/IEC 62056' for 'DLMS'.

(*Page 19, Table 28, Item No. (i), col 2*) – Substitute 'IS/IEC 62056 (Parts 21, 42, 46, 4-7, 5-3, 6-1 and 6-2)' for 'DLMS/COSEM (IEC 62056)'.