BSI Standards Publication

Electricity metering data exchange - The DLMS/COSEM suite

Part 6-2: COSEM interface classes

bsi.

National foreword

This British Standard is the UK implementation of EN IEC 62056-6-2:2018. It is identical to IEC 62056-6-2:2017. It supersedes BS EN 62056-6-2:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/13, Electricity Meters.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Amendments/corrigenda issued since publication

Date	Text affected

EUROPEAN STANDARD

NORME EUROPÉENNE

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EN IEC 62056-6-2

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English Version

Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes
(IEC 62056-6-2:2017)

Échange des données de comptage de l'électricité - La suite DLMS/COSEM - Partie 6-2: Classes d'interfaces COSEM
(IEC 62056-6-2:2017)

Datenkommunikation der elektrischen Energiemessung - DLMS/COSEM - Teil 6-2: Interface-Klassen
(IEC 62056-6-2:2017)

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European Committee for Electrotechnical Standardization
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European foreword

The text of document 13/1746/FDIS, future edition 3 of IEC 62056-6-2, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62056-6-2:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement   (dop)   2018-08-23

- latest date by which the national standards conflicting with the document have to be withdrawn   (dow)   2021-02-23

This document supersedes EN 62056-6-2:2016.

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The text of the International Standard IEC 62056-6-2:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61334-6:2000	NOTE	Harmonized as EN 61334-6:2000 (not modified).
IEC 62056-4-7:2015	NOTE	Harmonized as EN 62056-4-7:2016 (not modified).
IEC 62056-7-6:2013	NOTE	Harmonized as EN 62056-7-6:2013 (not modified).
IEC 62056-9-7:2013	NOTE	Harmonized as EN 62056-9-7:2013 (not modified).
IEC 62056-8-4[1]	NOTE	Harmonized as EN 62056-8-4[2] (not modified).
IEC 62056-8-5:2017	NOTE	Harmonized as EN 62056-8-5:2017 (not modified).

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[1] To be published. Stage at the time of publication: IEC CDV 62056-8-4:2017.
[2] To be published. Stage at the time of publication: prEN 62056-8-4:2017.

Annex ZA
(normative)

Normative references to international publications
with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
-	-	Communication systems for meters and remote reading of meters - Part 2: Physical and link layer	EN 13757-2	2004
-	-	Communication systems for meters and remote reading of meters - Part 3: Dedicated application layer	EN 13757-3	2004[3]
-	-	Communication systems for meters and remote reading of meters - Part 3: Dedicated application layer	EN 13757-3	2013
-	-	Communication system for and remote reading of meters – Part 4: Wireless meter (Radio meter reading for operation in SRD bands)	EN 13757-4	2013
-	-	Communication systems for meters - Part 5: Wireless M-Bus relaying	EN 13757-5	2015
IEC 61334-4-32	1996	Distribution automation using distribution line carrier systems -- Part 4: Data communication protocols -- Section 32: Data link layer - Logical link control (LLC)	EN 61334-4-32	1996
IEC 61334-4-41	1996	Distribution automation using distribution line carrier systems -- Part 4: Data communication protocols -- Section 41: Application protocols - Distribution line message specification	EN 61334-4-41	1996
IEC 61334-4-511	2000	Distribution automation using distribution line carrier systems -- Part 4-511: Data communication protocols - Systems management - CIASE protocol	EN 61334-4-511	2000

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[3] Superseded by EN 13757-3:2013.

IEC 61334-4-512	2001	Distribution automation using distribution line carrier systems -- Part 4-512: Data communication protocols - System management using profile 61334-5-1 - Management Information Base (MIB)	EN 61334-4-512	2002
IEC 61334-5-1	2001	Distribution automation using distribution line carrier systems -- Part 5-1: Lower layer profiles - The spread frequency shift keying (S-FSK) profile	EN 61334-5-1	2001
IEC TR 62055-21	2005	Electricity metering - Payment systems - Part 21: Framework for standardization	-	-
IEC 62056-21	2002	Electricity metering - Data exchange for meter reading, tariff and load control - Part 21: Direct local data exchange	EN 62056-21	2002
IEC 62056-31	1999	Electricity metering - Data exchange for meter reading, tariff and load control - Part 31: Use of local area networks on twisted pair with carrier signalling	EN 62056-31	2000[4]
IEC 62056-3-1	2013	Electricity metering data exchange - The DLMS/COSEM suite -- Part 3-1: Use of local area networks on twisted pair with carrier signalling	EN 62056-3-1	2014
IEC 62056-46	2002	Electricity metering - Data exchange for meter reading, tariff and load control -- Part 46: Data link layer using HDLC protocol	EN 62056-46	2002
+ A1	2006		+ A1	2007
IEC 62056-5-3	2017	Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer	EN 62056-5-3	2017
IEC 62056-6-1	2017	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)	EN 62056-6-1	2017
IEC 62056-7-3	2017	Electricity metering data exchange - The DLMS/COSEM suite - Part 7-3: Wired and wireless M-Bus communication profiles for local and neighbourhood networks	EN 62056-7-3	2017
IEC 62056-8-3	2013	Electricity metering data exchange - The DLMS/COSEM suite -- Part 8-3: Communication profile for PLC S-FSK neighbourhood networks	EN 62056-8-3	2013
IEC 62056-8-6	2017	Electricity metering data exchange - The DLMS/COSEM suite - Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks	EN 62056-8-6	2017

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[4] Superseded by EN 62056-3-1:2014 (IEC 62056-3-1:2013).

ISO/IEC 8802-2	1998	Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 2: Logical link control	-	-
ISO/IEC 12139-1	2009	Information technology - Telecommunications and information exchange between systems - Powerline communication (PLC) - High speed PLC medium access control (MAC) and physical layer (PHY) - Part 1: General requirements	-	-
ISO/IEC/IEEE 60559	2011	Information technology - Microprocessor Systems - Floating-Point arithmetic	-	-
ISO 4217	-	Codes for the representation of currencies	-	-
3GPP TS 24.301 V13.4.0	2016	Technical Specification Group Core Network and Terminals; Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3	-	-
ITU-T E.212	2008	The international identification plan for public networks and subscriptions	-	-
ITU-T G.9903	2012	SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS - Access networks - In premises networks - Narrow-band orthogonal frequency division multiplexing power line communication transceivers for G3-PLC networks	-	-
+A1	2013			
ITU-T G.9903	2014	SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS - Access networks - In premises networks - Narrow-band orthogonal frequency division multiplexing power line communication transceivers for G3-PLC networks	-	-
ITU-T G.9904	2012	SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS - Access networks - In premises networks - Narrow-band orthogonal frequency division multiplexing power line communication transceivers for PRIME networks	-	-

IEEE 802.15.4	2006	Standard for Information technology-- Local and metropolitan area networks-- Specific requirements-- Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPANs)	-	-
ETSI GSM 05.08	1996	Digital cellular telecommunications system (Phase 2+); Radio subsystem link control	-	-
ANSI C12.19:1997/IEEE 1377	1997	Utility Industry End Device Data Tables	-	-
ZigBee® 053474	-	ZigBee® Specification	-	-
IETF STD 51	1994	The Point-to-Point Protocol (PPP)	-	-
IETF STD 51 / RFC 1661	1994	The Point-to-Point Protocol (PPP)	-	-
IETF STD 51 / RFC 1662	1994	PPP in HDLC-like Framing	-	-
RFC 791	1981	Internet Protocol - DARPA Internet Program Protocol Specification	-	-
RFC 1144	1990	Compressing TCP/IP Headers for Low-Speed Serial Links	-	-
RFC 1332	1992	The PPP Internet Protocol Control Protocol (IPCP)	-	-
RFC 1570	1994	PPP LCP Extensions	-	-
RFC 1994	1996	PPP Challenge Handshake Authentication Protocol (CHAP)	-	-
RFC 2433	1998	PPP CHAP Extension	-	-
RFC 2474	1998	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers	-	-
RFC 2507	1999	IP Header Compression	-	-
RFC 2508	1999	Compressing IP/UDP/RTP Headers for Low-Speed Serial Links	-	-
RFC 2759	2000	Microsoft PPP CHAP Extensions	-	-
RFC 2986	-	PKCS #10: Certification Request Syntax Specification Version 1.7	-	-
RFC 3095	2001	Robust Header Compression (ROHC): Framework and four profiles: RTP, UDP, ESP, and uncompressed	-	-

RFC 3241	2002	Robust Header Compression (ROHC) over PPP	-	-
RFC 3513	2003	Internet Protocol Version 6 (IPv6) Addressing Architecture	-	-
RFC 3544	2003	IP Header Compression over PPP	-	-
RFC 3748	2014	Extensible Authentication Protocol (EAP)	-	-
RFC 4861	2007	Neighbor Discovery for IP version 6 (IPv6)	-	-
RFC 5280	2008	Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile	-	-
RFC 5905	2010	Network Time Protocol Version 4: Protocol and Algorithms Specification	-	-
RFC 6282	2011	Compression Format for IPv6 Datagrams over IEEE 802.15.4-Based Networks	-	-
RFC 6775	2012	Neighbor Discovery Optimization for IPv6 over Low-Power Wireless Personal Area Networks (6LoWPANs)	-	-
Point-to-Point (PPP)		Protocol Field Assignments	-	-

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