

# SLOVENSKI STANDARD

## SIST EN 62056-5-3:2017

01-februar-2017

Nadomešča:

SIST EN 62056-5-3:2014

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### Izmenjava podatkov pri merjenju električne energije - Niz DLMS/COSEM - 5-3. del: Aplikacijska plast DLMS/COSEM

Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer

Datenkommunikation der elektrischen Energiemessung - DLMS/COSEM - Teil 5-3:  
DLMS/COSEM-Anwendungsschicht

Échange des données de comptage de l'électricité - La suite DLMS/COSEM - Partie 5-3:  
Couche application DLMS/COSEM

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**Ta slovenski standard je istoveten z: EN 62056-5-3:2016**

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35.100.70	Uporabniški sloj	Application layer
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

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**en**

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EUROPEAN STANDARD

**EN 62056-5-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

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English Version

Electricity metering data exchange - The DLMS/COSEM suite -  
Part 5-3: DLMS/COSEM application layer  
(IEC 62056-5-3:2016)

Échange des données de comptage de l'électricité - La  
suite DLMS/COSEM - Partie 5-3: Couche application  
DLMS/COSEM  
(IEC 62056-5-3:2016)

Datenkommunikation der elektrischen Energiemessung -  
DLMS/COSEM - Teil 5-3: DLMS/COSEM-  
Anwendungsschicht  
(IEC 62056-5-3:2016)

This European Standard was approved by CENELEC on 2016-04-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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[SIST EN 62056-5-3:2017](#)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 62056-5-3:2016****European foreword**

The text of document 13/1648/FDIS, future edition 2 of IEC 62056-5-3, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62056-5-3:2016.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-06-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-09

This document supersedes EN 62056-5-3:2014.

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

IEC 61334-4-3:1996	NOTE	Harmonized as EN 61334-4-32:1996 (not modified).
IEC 61334-4-511:2000	NOTE	Harmonized as EN 61334-4-511:2000 (not modified).
IEC 61334-4-512:2001	NOTE	Harmonized as EN 61334-4-512:2002 (not modified).
IEC 61334-5-1:2001	NOTE	Harmonized as EN 61334-5-1:2001 (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).
ISO/IEC 7498-1:1994	NOTE	Harmonized as EN ISO/IEC 7498-1:1994 <sup>1)</sup> (not modified).

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<sup>1)</sup> Withdrawn publication.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 61334-6	2000	Distribution automation using distribution line carrier systems - Part 6: A-XDR encoding rule	EN 61334-6	2000
IEC/TR 62051	1999	Electricity metering - Glossary of terms	-	-
IEC/TR 62051-1	2004	Electricity metering - Data exchange for meter reading, tariff and load control - Glossary of terms	-	-
IEC 62056-1-0	-	Electricity metering data exchange - The DLMS/COSEM suite - Part 1-0: Smart metering standardisation framework	EN 62056-1-0	-
IEC 62056-6-1	2015	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)	EN 62056-6-1	2016
IEC 62056-6-2	2016	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes	EN 62056-6-2	2016
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
ISO/IEC 8824-1	2008 <sup>2)</sup>	Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation	-	-

<sup>2)</sup> Superseded by ISO/IEC 8824-1:2015.

## EN 62056-5-3:2016

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 8825-1	2008 <sup>3)</sup>	Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)	-	-
ISO/IEC 15953	1999	Information technology - Open Systems Interconnection - Service Definition for the Application Service Object Association Control Service Element	-	-
ISO/IEC 15954	1999	Information technology - Open Systems Interconnection - Connection-mode protocol for the Application Service Object Association Control Service Element	-	-
FIPS PUB 180-4	2012	Secure Hash Standard (SHS)	-	-
FIPS PUB 197	2001	Advanced Encryption Standard (AES)	-	-
NIST SP 800-38D	2007	Recommendation for Block Cipher Modes of Operation: Galois/Counter Mode (GCM) and GMAC	-	-
NIST SP 800-57	2007	Recommendation for key management - Part 1: General	-	-
RFC 1321	1992	The MD5 Message-Digest Algorithm. Edited by R. Rivest (MIT Laboratory for Computer Science and RSA Data Security, Inc.)	-	-
RFC 3394	2002	Advanced Encryption Standard (AES) Key Wrap Algorithm. Edited by J. Schaad (Soaring Hawk Consulting) and R. Housley (RSA Laboratories)	-	-
RFC 4106	-	The Use of Galois/Counter Mode (GCM) in IPsec Encapsulating Security Payload (ESP)	-	-

<sup>3)</sup> Superseded by ISO/IEC 8825-1:2015.



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Electricity metering data exchange – The DLMS/COSEM suite –  
Part 5-3: DLMS/COSEM application layer

Échange des données de comptage de l'électricité – La suite DLMS/COSEM –  
Partie 5-3: Couche application DLMS/COSEM

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## CONTENTS

FOREWORD.....	8
INTRODUCTION.....	10
1 Scope.....	11
2 Normative references .....	11
3 Terms, definitions and abbreviations .....	13
3.1 Terms and definitions .....	13
3.2 Abbreviations .....	13
4 Overview .....	15
4.1 DLMS/COSEM application layer structure .....	15
4.2 DLMS/COSEM application layer services.....	16
4.2.1 ASO services .....	16
4.2.2 Services provided for application association establishment and release .....	16
4.2.3 Services provided for data transfer .....	17
4.2.4 Layer management services .....	22
4.2.5 Summary of DLMS/COSEM application layer services .....	22
4.3 DLMS/COSEM application layer protocols .....	22
5 Information security in DLMS/COSEM .....	23
5.1 Definitions.....	23
5.2 General.....	23
5.3 Data access security .....	24
5.3.1 Overview .....	24
5.3.2 No security (lowest level security) authentication.....	24
5.3.3 Low Level Security (LLS) authentication.....	24
5.3.4 High Level Security (HLS) authentication.....	25
5.4 Data transport security .....	27
5.4.1 Applying, removing or checking the protection: ciphering and deciphering.....	27
5.4.2 Security context .....	28
5.4.3 Security policy .....	28
5.4.4 Security suite .....	29
5.4.5 Security material .....	29
5.4.6 Ciphered xDLMS APDUs.....	29
5.4.7 Cryptographic keys .....	31
5.4.8 The Galois/Counter Mode of Operation (GCM).....	34
6 DLMS/COSEM application layer service specification .....	43
6.1 Service primitives and parameters .....	43
6.2 The COSEM-OPEN service .....	45
6.3 The COSEM-RELEASE service .....	50
6.4 COSEM-ABORT service .....	52
6.5 Protection and general block transfer parameters .....	53
6.6 The GET service .....	57
6.7 The SET service .....	59
6.8 The ACTION service .....	62
6.9 The DataNotification service.....	66
6.10 The EventNotification service .....	67
6.11 The TriggerEventNotificationSending service .....	68



6.12	Variable access specification.....	69
6.13	The Read service.....	69
6.14	The Write service.....	73
6.15	The UnconfirmedWrite service.....	76
6.16	The InformationReport service.....	77
6.17	Client side layer management services: the SetMapperTable.request.....	78
6.18	Summary of services and LN/SN data transfer service mapping.....	78
7	DLMS/COSEM application layer protocol specification.....	79
7.1	The control function.....	79
7.1.1	State definitions of the client side control function.....	79
7.1.2	State definitions of the server side control function.....	81
7.2	The ACSE services and APDUs.....	82
7.2.1	ACSE functional units, services and service parameters.....	82
7.2.2	Registered COSEM names.....	85
7.2.3	APDU encoding rules.....	87
7.2.4	Protocol for application association establishment.....	87
7.2.5	Protocol for application association release.....	92
7.3	Protocol for the data transfer services.....	95
7.3.1	Negotiation of services and options – the conformance block.....	95
7.3.2	Confirmed and unconfirmed service invocations.....	96
7.3.3	Protocol for the GET service.....	98
7.3.4	Protocol for the SET service.....	101
7.3.5	Protocol for the ACTION service.....	104
7.3.6	Protocol of the DataNotification service.....	106
7.3.7	Protocol for the EventNotification service.....	106
7.3.8	Protocol for the Read service.....	106
7.3.9	Protocol for the Write service.....	110
7.3.10	Protocol for the UnconfirmedWrite service.....	114
7.3.11	Protocol for the InformationReport service.....	115
7.3.12	Protocol of general block transfer mechanism.....	116
8	Abstract syntax of ACSE and COSEM APDUs.....	127
Annex A (normative) Using the COSEM application layer in various communications profiles.....		142
A.1	General.....	142
A.2	Targeted communication environments.....	142
A.3	The structure of the profile.....	142
A.4	Identification and addressing schemes.....	142
A.5	Supporting layer services and service mapping.....	143
A.6	Communication profile specific parameters of the COSEM AL services.....	143
A.7	Specific considerations / constraints using certain services within a given profile.....	143
A.8	The 3-layer, connection-oriented, HDLC based communication profile.....	143
A.9	The TCP-UDP/IP based communication profiles (COSEM_on_IP).....	143
A.10	The S-FSK PLC profile.....	143
Annex B (normative) SMS short wrapper.....		144
Annex C (informative) AARQ and AARE encoding examples.....		145
C.1	General.....	145
C.2	Encoding of the xDLMS InitiateRequest / InitiateResponse APDUs.....	145
C.3	Specification of the AARQ and AARE APDUs.....	148

C.4	Data for the examples .....	149
C.5	Encoding of the AARQ APDU .....	150
C.6	Encoding of the AARE APDU.....	153
Annex D (informative) Encoding examples: AARQ and AARE APDUs using a ciphered application context.....		159
D.1	A-XDR encoding of the xDLMS InitiateRequest APDU, carrying a dedicated key .....	159
D.2	Authenticated encryption of the xDLMS InitiateRequest APDU .....	160
D.3	The AARQ APDU .....	161
D.4	A-XDR encoding of the xDLMS InitiateResponse APDU .....	162
D.5	Authenticated encryption of the xDLMS InitiateResponse APDU.....	163
D.6	The AARE APDU.....	164
D.7	The RLRQ APDU (carrying a ciphered xDLMS InitiateRequest APDU).....	165
D.8	The RLRE APDU (carrying a ciphered xDLMS InitiateResponse APDU).....	166
Annex E (informative) Data transfer service examples .....		167
Annex F (informative) Overview of cryptography.....		183
F.1	General.....	183
F.2	Hash functions .....	183
F.3	Symmetric key algorithms.....	184
F.3.1	General .....	184
F.3.2	Encryption and decryption.....	184
F.3.3	Advanced Encryption Standard (AES).....	185
F.3.4	Encryption Modes of Operation .....	185
F.3.5	Message Authentication Code .....	186
F.3.6	Key establishment.....	187
F.4	Asymmetric key algorithms.....	187
F.4.1	General .....	187
F.4.2	Digital signatures .....	188
F.4.3	Key establishment.....	188
Annex G (informative) Significant technical changes with respect to IEC 62056-5-3 Ed.1.0:2013.....		189
Bibliography .....		191
Index.....		194
Figure 1 – Structure of the COSEM Application layers .....		15
Figure 2 – Summary of DLMS/COSEM AL services.....		22
Figure 3 – Authentication mechanisms during AA establishment .....		27
Figure 4 – Structure of service specific global ciphering and dedicated ciphering APDUs .....		30
Figure 5 – Structure of general global ciphering and dedicated ciphering APDUs .....		30
Figure 6 – Cryptographic protection of xDLMS APDUs using GCM.....		37
Figure 7 – Service primitives.....		43
Figure 8 – Time sequence diagrams.....		44
Figure 9 – Additional service parameters to control cryptographic protection and general block transfer .....		54
Figure 10 – Partial state machine for the client side control function .....		80
Figure 11 – Partial state machine for the server side control function .....		81

Figure 12 – MSC for successful AA establishment preceded by a successful lower layer connection establishment .....	88
Figure 13 – Graceful AA release using the A-RELEASE service .....	93
Figure 14 – Graceful AA release by disconnecting the supporting layer .....	94
Figure 15 – Aborting an AA following a PH-ABORT.indication .....	95
Figure 16 – MSC of the GET service .....	98
Figure 17 – MSC of the GET service with block transfer.....	99
Figure 18 – MSC of the GET service with block transfer, long GET aborted.....	101
Figure 19 – MSC of the SET service.....	102
Figure 20 – MSC of the SET service with block transfer .....	102
Figure 21 – MSC of the ACTION service .....	104
Figure 22 – MSC of the ACTION service with block transfer.....	105
Figure 23 – MSC of the Read service used for reading an attribute .....	109
Figure 24 – MSC of the Read service used for invoking a method .....	109
Figure 25 – MSC of the Read Service used for reading an attribute, with block transfer.....	110
Figure 26 – MSC of the Write service used for writing an attribute.....	113
Figure 27 – MSC of the Write service used for invoking a method .....	113
Figure 28 – MSC of the Write service used for writing an attribute, with block transfer.....	114
Figure 29 – MSC of the Unconfirmed Write service used for writing an attribute .....	115
Figure 30 – Partial service invocations and GBT APDUs.....	118
Figure 31 – GET service with GBT, switching to streaming .....	120
Figure 32 – GET service with partial invocations, GBT and streaming, recovery of 4 <sup>th</sup> block sent in the 2 <sup>nd</sup> stream.....	121
Figure 33 – GET service with partial invocations, GBT and streaming, recovery of 4 <sup>th</sup> and 5 <sup>th</sup> blocks .....	122
Figure 34 – GET service with partial invocations, GBT and streaming, recovery of last block .....	123
Figure 35 – SET service with GBT, with server not supporting streaming, recovery of 3rd block .....	124
Figure 36 – ACTION-WITH-LIST service with bi-directional GBT and block recovery .....	125
Figure 37 – DataNotification service with GBT with partial invocation .....	126
Figure B.1 – Short wrapper .....	144
Figure F.1 – Hash function .....	184
Figure F.2 – Encryption and decryption .....	185
Figure F.3 – Message Authentication Codes (MACs) .....	186
Table 1 – Clarification of the meaning of PDU Size for DLMS/COSEM .....	18
Table 2 – Security suites.....	29
Table 3 – Ciphered xDLMS APDUs .....	29
Table 4 – Use of the fields of the ciphered APDUs.....	31
Table 5 – Cryptographic keys and their management.....	34
Table 6 – Security control byte .....	38
Table 7 – Plaintext and additional authenticated data .....	38
Table 8 – Example for ciphered APDUs .....	40
Table 9 – HLS example with GMAC.....	42

Table 10 – Codes for AL service parameters .....	45
Table 11 – Service parameters of the COSEM-OPEN service primitives .....	46
Table 12 – Service parameters of the COSEM-RELEASE service primitives .....	50
Table 13 – Service parameters of the COSEM-ABORT service primitives .....	53
Table 14 – Additional service parameters .....	55
Table 15 – Security parameters .....	56
Table 16 – Service parameters of the GET service .....	57
Table 17 – GET service request and response types .....	58
Table 18 – Service parameters of the SET service .....	60
Table 19 – SET service request and response types .....	61
Table 20 – Service parameters of the ACTION service .....	63
Table 21 – ACTION service request and response types .....	64
Table 22 – Service parameters of the DataNotification service primitives .....	66
Table 23 – Service parameters of the EventNotification service primitives .....	67
Table 24 – Service parameters of the TriggerEventNotificationSending.request service primitive .....	68
Table 25 – Variable Access Specification .....	69
Table 26 – Service parameters of the Read service .....	70
Table 27 – Use of the Variable_Access_Specification variants and the Read.response choices .....	71
Table 28 – Service parameters of the Write service .....	74
Table 29 – Use of the Variable_Access_Specification variants and the Write.response choices .....	74
Table 30 – Service parameters of the UnconfirmedWrite service .....	76
Table 31 – Use of the Variable_Access_Specification variants .....	77
Table 32 – Service parameters of the InformationReport service .....	78
Table 33 – Service parameters of the SetMapperTable.request service primitives .....	78
Table 34 – Summary of ACSE services .....	79
Table 35 – Summary of xDLMS services for LN referencing .....	79
Table 36 – Summary of xDLMS services for SN referencing .....	79
Table 37 – ACSE functional units, services and service parameters .....	83
Table 38 – Use of ciphered / unciphered APDUs .....	86
Table 39 – xDLMS Conformance block .....	96
Table 40 – GET service types and APDUs .....	98
Table 41 – SET service types and APDUs .....	101
Table 42 – ACTION service types and APDUs .....	104
Table 43 – Mapping between the GET and the Read services .....	107
Table 44 – Mapping between the ACTION and the Read services .....	108
Table 45 – Mapping between the SET and the Write services .....	111
Table 46 – Mapping between the ACTION and the Write service .....	112
Table 47 – Mapping between the SET and the UnconfirmedWrite services .....	115
Table 48 – Mapping between the ACTION and the UnconfirmedWrite services .....	115
Table 49 – Mapping between the EventNotification and InformationReport services .....	116
Table B.1 – Reserved Application Processes .....	144

Table C.1 – Conformance block .....	146
Table C.2 – A-XDR encoding of the xDLMS InitiateRequest APDU.....	147
Table C.3 – A-XDR encoding of the xDLMS InitiateResponse APDU .....	148
Table C.4 – BER encoding of the AARQ APDU.....	151
Table C.5 – Complete AARQ APDU .....	153
Table C.6 – BER encoding of the AARE APDU .....	154
Table C.7 – The complete AARE APDU.....	158
Table D.1 – A-XDR encoding of the xDLMS InitiateRequest APDU.....	159
Table D.2 – Authenticated encryption of the xDLMS InitiateRequest APDU .....	160
Table D.3 – BER encoding of the AARQ APDU.....	161
Table D.4 – A-XDR encoding of the xDLMS InitiateResponse APDU .....	163
Table D.5 – Authenticated encryption of the xDLMS InitiateResponse APDU.....	163
Table D.6 – BER encoding of the AARE APDU .....	164
Table D.7 – BER encoding of the RLRQ APDU .....	166
Table D.8 – BER encoding of the RLRE APDU .....	166
Table E.1 – Objects used in the examples .....	167
Table E.2 – Example: Reading the value of a single attribute without block transfer .....	168
Table E.3 – Example: Reading the value of a list of attributes without block transfer.....	169
Table E.4 – Example: Reading the value of a single attribute with block transfer .....	171
Table E.5 – Example: Reading the value of a list of attributes with block transfer .....	173
Table E.6 – Example: Writing the value of a single attribute without block transfer .....	176
Table E.7 – Example: Writing the value of a list of attributes without block transfer .....	177
Table E.8 – Example: Writing the value of a single attribute with block transfer .....	178
Table E.9 – Example: Writing the value of a list of attributes with block transfer .....	180

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING DATA EXCHANGE –  
THE DLMS/COSEM SUITE –****Part 5-3: DLMS/COSEM application layer**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this International Standard may involve the use of a maintenance service concerning the stack of protocols on which the present standard IEC 62056-5-3 is based.

The IEC takes no position concerning the evidence, validity and scope of this maintenance service.

The provider of the maintenance service has assured the IEC that he is willing to provide services under reasonable and non-discriminatory terms and conditions for applicants throughout the world. In this respect, the statement of the provider of the maintenance service is registered with the IEC. Information may be obtained from:

DLMS<sup>1</sup> User Association  
Zug/Switzerland  
www.dlms.com

<sup>1</sup> Device Language Message Specification.

International Standard IEC 62056-5-3 has been prepared by IEC technical committee 13: Electrical energy measurement and control.

This second edition cancels and replaces the first edition of IEC 62056-5-3 published in 2013. It constitutes a technical revision.

The significant technical changes with respect to the previous edition are listed in Annex G (informative).

The text of this standard is based on the following documents:

FDIS	Report on voting
13/1648/FDIS	13/1657/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 62056 series, published under the general title *Electricity metering data exchange– The DLMS/COSEM suite*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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