



NSAI
Standards

Irish Standard
I.S. EN 62056-7-6:2013

Electricity metering data exchange -
The DLMS/COSEM suite -- Part 7-6: The
3-layer, connection-oriented HDLC
based communication profile (IEC
62056-7-6:2013 (EQV))

I.S. EN 62056-7-6:2013

Incorporating amendments/corrigenda issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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English version

**Electricity metering data exchange -
The DLMS/COSEM suite -
Part 7-6: The 3-layer, connection-oriented HDLC based communication
profile
(IEC 62056-7-6:2013)**

Echange des données de comptage de
l'électricité -
La suite DLMS/COSEM -
Partie 7-6: Profil de communication à 3
couches, orienté connexion et basé sur
HDLC
(CEI 62056-7-6:2013)

Datenkommunikation der elektrischen
Energiesmessung -
DLMS/COSEM -
Teil 7-6: HDLC basiertes 3-Schichten
Kommunikations-Protokoll
(IEC 62056-7-6:2013)

This European Standard was approved by CENELEC on 2013-06-20. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

Foreword

The text of document 13/1527/FDIS, future edition 1 of IEC 62056-7-6, prepared by IEC/TC 13 "Electrical energy measurement, tariff- and load control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62056-7-6:2013.

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) 2014-03-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-06-20

EN 62056-7-6:2013 supersedes partially EN 62056-53:2007.

It is based on EN 62056-53:2007, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 53: COSEM application layer, Annex B.2 The 3-layer, connection-oriented, HDLC based communication profile* and introduces the following significant technical changes:

NOTE EN 62056-53:2007 contains the specification of the DMS/COSEM communication profiles whereas the new edition, EN 62056-5-3:2013, which replaces it, does not.

- The title of the standard has been aligned with the title of other parts of the revised EN 62056 series;
- A Figure showing the protocol stack has been added to Clause 5.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 62056-7-6:2013 was approved by CENELEC as a European Standard without any modification.

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62056-5-3	2013	Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer	EN 62056-5-3	2013
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 62056-42	2002	Electricity metering - Data exchange for meter reading, tariff and load control - Part 42: Physical layer services and procedures for connection-oriented asynchronous data exchange	EN 62056-42	2002
IEC 62056-46 + A1	2002 2006	Electricity metering - Data exchange for meter reading, tariff and load control - Part 46: Data link layer using HDLC protocol	EN 62056-46 + A1	2002 2007

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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms, definitions and abbreviations	5
4 Targeted communication environments.....	6
5 Structure of the profile	6
6 Identification and addressing scheme	7
7 Supporting layer services and service mapping	8
8 Communication profile specific service parameters of the DLMS/COSEM AL services.....	9
9 Specific considerations / constraints	9
9.1 Confirmed and unconfirmed AAs and data transfer service invocations, frame types used.....	9
9.2 Correspondence between AAs and data link layer connections, releasing AAs	10
9.3 Service parameters of the COSEM-OPEN / -RELEASE / -ABORT services.....	10
9.4 EventNotification service and protocol.....	11
9.5 Transporting long messages.....	13
9.6 Supporting multi-drop configurations	13
Bibliography.....	15
Index	16
Figure 1 – The DLMS/COSEM 3-layer, connection oriented, HDLC based communication profile	7
Figure 2 – Identification/addressing scheme in the 3-layer, CO, HDLC-based communication profile	8
Figure 3 – Summary of data link layer services	9
Figure 4 – Example: EventNotificaton triggered by the client.....	12
Figure 5 – Multi-drop configuration and its model.....	13
Figure 6 – Master/ Slave operation on the multi-drop bus	13
Table 1 – Application associations and data exchange in the 3-layer, CO, HDLC-based profile	10

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING DATA EXCHANGE –
THE DLMS/COSEM SUITE –**

**Part 7-6: The 3-layer, connection-oriented
HDLC based communication profile**

FOREWORD

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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

DLMS¹ User Association
Zug/Switzerland
www.dlms.ch

¹ Device Language Message Specification.

International Standard IEC 62056-7-6 has been prepared by Technical Committee 13, Electrical energy measurement, tariff- and load control.

It is based on IEC 62056-53:2006, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 53: COSEM application layer, Annex B.2 The 3-layer, connection-oriented, HDLC based communication profile* and introduces the following significant technical changes:

NOTE IEC 62056-53:2006 contains the specification of the DMS/COSEM communication profiles whereas the new edition, IEC 62056-5-3:—², which replaces it, does not.

- The title of the standard has been aligned with the title of other parts of the revised IEC 62056 series;
- A Figure showing the protocol stack has been added to Clause 5.

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

FDIS	Report on voting
13/1527/FDIS	13/1545/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.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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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² To be published simultaneously with this part of IEC 62056.

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