

Electricity metering data exchange - The DLMS/COSEM suite -- Part 3-1: Use of local area networks on twisted pair with carrier signalling

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**Electricity metering data exchange - The DLMS/COSEM suite -
Part 3-1: Use of local area networks on twisted pair with carrier signalling
(IEC 62056-3-1:2013)**

Échange des données de comptage de
l'électricité -
La suite DLMS/COSEM -
Partie 3-1: Utilisation des réseaux locaux
sur paire torsadée avec signal de
porteuse
(CEI 62056-3-1:2013)

Datenkommunikation der elektrischen
Energiesmessung -
DLMS/COSEM -
Teil 3-1: Nutzung lokaler Netzwerke mit
Trägerfrequenz-Signalübertragung auf
verdrehen Zweidrahtleitungen
(IEC 62056-3-1:2013)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 13/1546/FDIS, future edition 1 of IEC 62056-3-1, 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 62056-3-1:2014.

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) 2014-09-07
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-09-24

This document supersedes EN 62056-31:2000.

EN 62056-3-1:2014 includes the following significant technical changes with respect to EN 62056-31:2000:

- addition of a profile which makes use of the EN 62056 DLMS/COSEM Application layer and COSEM object model;
- review of the data link layer which is split into two parts:
 - a pure Data Link layer;
 - a "Support Manager" entity managing the communication media;
- ability to negotiate the communication speed, bringing baud rate up to 9 600 bauds.

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 62056-3-1:2013 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 62056-6-1:2013	NOTE	Harmonized as EN 62056-6-1:2013 (not modified).
IEC 62056-6-2:2013	NOTE	Harmonized as EN 62056-6-2:2013 (not modified).

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 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 62056-51	1998	Electricity metering - Data exchange for meter reading, tariff and load control - Part 51: Application layer protocols	-	-
IEC 62056-5-3	2013	Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer	EN 62056-5-3	2014
ISO/IEC 8482	1993	Information technology - Telecommunications and information exchange between systems - Twisted pair multipoint interconnections	-	-
EIA 485	-	Electrical characteristics of generators and receivers for use in balanced digital multipoint systems	-	-

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