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I.S. EN 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

I.S. EN 62056-8-6:2017

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EUROPEAN STANDARD

EN 62056-8-6

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English Version

**Electricity metering data exchange - The DLMS/COSEM suite -
Part 8-6: High speed PLC ISO/IEC 12139-1 profile for
neighbourhood networks
(IEC 62056-8-6:2017)**

Échange des données de comptage de l'électricité - La
suite DLMS/COSEM - Partie 8-6: Profil CPL ISO/IEC
12139-1 à grande vitesse pour les réseaux de voisinage
(IEC 62056-8-6:2017)

Datenkommunikation der elektrischen Energiemessung -
DLMS/COSEM - Teil 8-6: Schnelles PLC-ISO/IC-12139-1-
Profil für Areal-Netze
(IEC 62056-8-6:2017)

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Europäisches Komitee für Elektrotechnische Normung

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EN 62056-8-6:2017

European foreword

The text of document 13/1730/FDIS, future edition 1 of IEC 62056-8-6, prepared by IEC/TC 13 "Electrical energy measurement and control" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62056-8-6:2017.

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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) 2018-02-15
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62056-1-0	2014	Electricity metering data exchange - The DLMS/COSEM suite - Part 1-0: Smart metering standardisation framework	EN 62056-1-0	2015
IEC 62056-4-7	-	Electricity metering data exchange - The DLMS/COSEM suite -- Part 4-7: DLMS/COSEM transport layer for IP networks	EN 62056-4-7	-
IEC 62056-5-3	-	Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer	EN 62056-5-3	-
IEC 62056-6-1	-	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS)	EN 62056-6-1	-
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 62056-7-6	-	Electricity metering data exchange - The DLMS/COSEM suite -- Part 7-6: The 3-layer, connection-oriented HDLC based communication profile	EN 62056-7-6	-
IEC 62056-9-7	-	Electricity metering data exchange - The DLMS/COSEM suite -- Part 9-7: Communication profile for TCP-UDP/IP networks	EN 62056-9-7	-
IEC 62056-46	-	Electricity metering - Data exchange for meter reading, tariff and load control -- Part 46: Data link layer using HDLC protocol	EN 62056-46	-
IEC/TS 62056-1-1	2016	Electricity metering data exchange - The DLMS/COSEM suite - Part 1-1: Template for DLMS/COSEM communication profile standards	-	-
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 8802-3	2014	Standard for Ethernet	-	-
RFC 1144	-	Compressing TCP/IP Headers for Low-Speed Serial Links	-	-
RFC 2460	-	Internet Protocol, Version 6 (IPv6) Specification	-	-
RFC 2508	-	Compressing IP/UDP/RTP Headers for Low-Speed Serial Links	-	-

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RFC 3095	-	RObust Header Compression (ROHC): Framework and four profiles: RTP, UDP, ESP, and uncompressed	-	-
RFC 791	-	Internet Protocol - DARPA Internet Program Protocol Specification	-	-



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**Electricity metering data exchange – The DLMS/COSEM suite –
Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks**

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Partie 8-6: Profil CPL ISO/IEC 12139-1 à grande vitesse pour les réseaux de
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INTERNATIONAL STANDARD

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**Electricity metering data exchange – The DLMS/COSEM suite –
Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks**

**Échange des données de comptage de l'électricité – La suite DLMS/COSEM –
Partie 8-6: Profil CPL ISO/IEC 12139-1 à grande vitesse pour les réseaux de
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**ELECTRICITY METERING DATA EXCHANGE –
THE DLMS/COSEM SUITE –****Part 8-6: High speed PLC ISO/IEC 12139-1
profile for neighbourhood networks**

FOREWORD

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FDIS	Report on voting
13/1730/FDIS	13/1741/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 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 web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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INTRODUCTION

As defined in IEC 62056-1-0, the IEC 62056 DLMS/COSEM suite provides specific communication profile standards for communication media relevant for smart metering.

Such communication profile standards specify how the COSEM data model and the DLMS/COSEM application layer can be used on the lower, communication media-specific protocol layers.

Communication profile standards refer to communication standards that are part of the IEC 62056 DLMS/COSEM suite or to any other open communication standard.

This document specifies the DLMS/COSEM profile for High Speed PLC (HS-PLC) technologies according to ISO/IEC 12139-1 for neighbourhood networks. The technology is based on Discrete Multi-Tone (DMT) modulation. It may be used in low voltage or on medium voltage distribution networks. The PHY rate of High Speed PLC is typically 24 Mbps, however the data throughput varies according to many aspects of low voltage or medium voltage power lines. Although High Speed PLC can be used both on low voltage and medium voltage networks, in this document HS-PLC on low voltage network is only considered.

When implementing advanced services based on DLMS/COSEM profiles such as complex tariff programs, data security measures, two-way consumption data exchange for demand response and so forth, the neighbourhood network may become a bottleneck. The HS-PLC technology minimizes such bottlenecks due to the high data rates available. Moreover, the HS-PLC technology can accommodate increased amounts of data thus it can additionally support other applications such as Internet of Things (IoT).

Using the high speed PLC technology specified in ISO/IEC 12139-1 may be subject to national regulations. However, this aspect is outside the Scope of this document.

ELECTRICITY METERING DATA EXCHANGE – THE DLMS/COSEM SUITE –

Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks

1 Scope

This part of IEC 62056 specifies the DLMS/COSEM communication profile for ISO/IEC 12139-1 High speed PLC (HS-PLC) neighbourhood networks.

It uses the standard ISO/IEC 12139-1 established by ISO/IEC JTC1 SC06.

2 Normative references

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IEC 62056-1-0:2014, *Electricity metering data exchange – The DLMS/COSEM suite – Part 1-0: Smart metering standardisation framework*

IEC TS 62056-1-1:2016, *Electricity metering data exchange – The DLMS/COSEM suite – Part 1-1: Template for DLMS/COSEM communication profile standards*

IEC 62056-46, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 46: Data link layer using HDLC protocol*

IEC 62056-4-7, *Electricity metering data exchange – The DLMS/COSEM suite – Part 4-7: DLMS/COSEM transport layer for IP networks*

IEC 62056-5-3, *Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer*

IEC 62056-6-1, *Electricity metering data exchange – The DLMS/COSEM suite – Part 6-1: Object Identification System (OBIS)*

IEC 62056-6-2:2016, *Electricity metering data exchange – The DLMS/COSEM suite – Part 6-2: COSEM interface classes*

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

IEC 62056-9-7, *Electricity metering data exchange – The DLMS/COSEM suite – Part 9-7: Communication profile for TCP-UDP/IP networks*

ISO/IEC/IEEE 8802:2014, *Standard for Ethernet*

ISO/IEC 12139-1:2009, *Information technology – Telecommunications and information exchange between systems – Power line communication (PLC) – High speed PLC medium access control (MAC) and physical layer (PHY) – Part 1: General requirements*

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