



# SLOVENSKI STANDARD

## SIST EN 62056-6-1:2017

01-februar-2017

Nadomešča:  
SIST EN 62056-6-1:2013

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**Izmenjava podatkov pri merjenju električne energije - Niz DLMS/COSEM - 6-1. del:  
Sistem za prepoznavanje objektov (OBIS)**

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

Datenkommunikation der elektrischen Energiemessung - DLMS/COSEM - Teil 6-1: COSEM Object Identification System (OBIS)

Echange des données de comptage de l'électricité - La suite DLMS/COSEM - Partie 6-1: Système d'identification des objets (OBIS)

**Ta slovenski standard je istoveten z: EN 62056-6-1:2016**

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**ICS:**

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
35.040.99	Drugi standardi v zvezi s kodiranjem informacij	Other standards related to information coding
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

**SIST EN 62056-6-1:2017**

**en**

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EUROPEAN STANDARD

**EN 62056-6-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 17.220; 35.110; 91.140.50

Supersedes EN 62056-6-1:2013

English Version

Electricity metering data exchange - The DLMS/COSEM suite -  
Part 6-1: Object Identification System (OBIS)  
(IEC 62056-6-1:2015)

Echange des données de comptage de l'électricité - La  
suite DLMS/COSEM - Partie 6-1: Système d'identification  
des objets (OBIS)  
(IEC 62056-6-1:2015)

Datenkommunikation der elektrischen Energiemessung -  
DLMS/COSEM - Teil 6-1: COSEM Object Identification  
System (OBIS)  
(IEC 62056-6-1:2015)

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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 62056-6-1:2016****European foreword**

The text of document 13/1649/FDIS, future edition 2 of IEC 62056-6-1, 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 62056-6-1:2016.

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) 2017-06-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-09

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## 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>
		Communication system for meters and remote reading of meters - Part 1: Data exchange	EN 13757-1	2002
IEC 62053-23	2003	Electricity metering equipment (a.c.) - Particular requirements -- Part 23: Static meters for reactive energy (classes 2 and 3)	EN 62053-23	2003
IEC 62056-6-2	-	Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes	EN 62056-6-2	-
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/TR 61000-2-8	2002	Electromagnetic compatibility (EMC) -- Part 2-8: Environment - Voltage dips and short interruptions on public electric power supply systems with statistical measurement results		-
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 -- Part 1: Terms related to data exchange with metering equipment using DLMS/COSEM		-

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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

**Échange des données de comptage de l'électricité – La suite DLMS/COSEM –  
Partie 6-1: Système d'identification des objets (OBIS)**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 17.220; 35.110; 91.140.50

ISBN 978-2-8322-3011-4

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING DATA EXCHANGE –  
THE DLMS/COSEM SUITE –****Part 6-1: Object Identification System (OBIS)**

## FOREWORD

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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 User Association  
Zug/Switzerland  
[www.dlms.com](http://www.dlms.com)

International Standard IEC 62056-6-1 has been prepared by IEC technical committee 13:  
Electrical energy measurement and control.

This second edition cancels and replaces the first edition of IEC 62056-6-1, published in 2013. It constitutes a technical revision.

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

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

FDIS	Report on voting
13/1649FDIS	13/1658/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 numbering scheme has changed from IEC 62056-XY to IEC 62056-X-Y. For example IEC 62056-61 becomes IEC 62056-6-1.

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.

## INTRODUCTION

This second edition of IEC 62056-6-1 has been prepared by IEC TC13 WG14 with a significant contribution of the DLMS User Association, its D-type liaison partner.

This edition is in line with the DLMS UA Blue Book Edition 11.0. This edition specifies new OBIS codes related to new applications and includes some editorial improvements.

In 2014, the DLMS UA has published Blue Book Edition 12.0 adding several new features regarding functionality, efficiency and security while keeping full backwards compatibility.

The intention of the DLMS UA is to bring also these latest developments to international standardization. Therefore, IEC TC13 WG14 launched a project to bring these new elements also to the IEC 62056 series that will lead to Edition 3.0 of the standard

### Data identification

The competitive electricity market requires an ever-increasing amount of timely information concerning the usage of electrical energy. Recent technology developments enable to build intelligent static metering equipment, which is capable of capturing, processing and communicating this information to all parties involved.

To facilitate the analysis of metering information, for the purposes of billing, load, customer and contract management, it is necessary to uniquely identify data items, whether collected manually or automatically, via local or remote data exchange, in a manufacturer-independent way. The definition of identification codes to achieve this – the OBIS codes – is based on DIN 43863-3:1997, *Electricity meters – Part 3: Tariff metering device as additional equipment for electricity meters – EDIS – Energy Data Identification System*.

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