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## **Elmätare – Datakommunikation för avläsning av elmätare och för styrning av tariff och belastning – DLMS/COSEM-familjen – Del 9-7: Kommunikationsprofil för TCP-UDP/IP**

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

Som svensk standard gäller europastandarden EN 62056-9-7:2013. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62056-9-7:2013.

### **Nationellt förord**

Europastandarden EN 62056-9-7:2013

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62056-9-7, First edition, 2013 - Electricity metering data exchange - The DLMS/COSEM suite - Part 9-7: Communication profile for TCP-UDP/IP networks**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 62056-53, utgåva 2, 2007, gäller ej fr o m 2016-06-20.

Standarden ersätter delvis SS-EN 62056-53, utgåva 2, 2007.

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ICS 17.220.00; 35.110.00; 91.140.50

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Denna standard är fastställd av SEK Svensk Elstandard,  
som också kan lämna upplysningar om **sakinnehållet** i standarden.  
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### **SEK Svensk Elstandard**

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**Electricity metering data exchange -  
The DLMS/COSEM suite -  
Part 9-7: Communication profile for TCP-UDP/IP networks  
(IEC 62056-9-7:2013)**

Échange des données de comptage de  
l'électricité -  
La suite DLMS/COSEM -  
Partie 9-7: Profil de communication pour  
réseaux TCP-UDP/IP  
(CEI 62056-9-7:2013)

Datenkommunikation der elektrischen  
Energiesmessung - DLMS/COSEM -  
Teil 9-7: Festlegungen zur Nutzung von  
TCP-UDP/IP-Netzen  
(IEC 62056-9-7:2013)

This European Standard was approved by CENELEC on 2013-05-28. 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 13/1520/FDIS, future edition 1 of IEC 62056-9-7, 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 62056-9-7:2013.

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) 2014-04-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-05-28

This document supersedes EN 62056-53:2007 (PART).

EN 62056-9-7:2013 includes the following significant technical changes with respect to EN 62056-53:2007:

Note: Whereas IEC 62056-53 Ed. 2.0 contains the specification of the DLMS/COSEM communication profiles, IEC 62056-5-3 Ed.1.0 replacing the earlier edition does not.

- The title of the standard has been aligned with the title of other parts of the revised IEC 62056 series;
- Clause 4, Targeted communication environments has been extended, a functional reference architecture figure has been added;
- Clause 5, The structure of the profile(s) has been extended, the Figure has been generalized and simplified;
- In clause 6, Identification and addressing scheme, the port number assigned by the IANA for DLMS/COSEM has been added;
- In subclause 9.1, Two paragraphs specifying how confirmed and unconfirmed COSEM-OPEN and xDLMS service invocations have been added;
- Subclause 9.6, Transporting long messages, has been amended. It specifies now that for transporting long messages, application layer block transfer can be used (also available now with SN referencing);
- The clause on Multi-drop configurations has been removed.

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 62056-9-7:2013 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 | NOTE | Harmonised as EN 62056-6-1 <sup>1)</sup> (not modified). |
| IEC 62056-6-2 | NOTE | Harmonised as EN 62056-6-2 <sup>1)</sup> (not modified). |

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<sup>1)</sup> at draft stage.

## 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 <sup>2)</sup> | -           | Electricity metering data exchange - The DLMS/COSEM suite -<br>Part 5-3: DLMS/COSEM application layer                                  | EN 62056-5-3 <sup>2)</sup> | -           |
| IEC 62056-47                | 2006        | Electricity metering - Data exchange for meter reading, tariff and load control -<br>Part 47: COSEM transport layers for IPv4 networks | EN 62056-47                | 2007        |

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<sup>2)</sup> At draft stage.

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

### **Part 9-7: Communication profile for TCP-UDP/IP networks**

#### **1 Scope**

This part of IEC 62056 specifies the DLMS/COSEM communication profile for TCP-UDP/IP networks.

#### **2 Normative references**

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.

IEC 62056-47:2006, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 47: COSEM transport layer for IPv4 networks*

IEC 62056-5-3:2013, *Electricity metering data exchange – The DLMS/COSEM suite – Part 5-3: DLMS/COSEM application layer*

NOTE See also the Bibliography.