

SLOVENSKI STANDARD
oSIST prEN IEC 62056-8-11:2025
01-marec-2025

Izmenjevanje podatkov za odbiranje stanja števecv - Sestav DLMS/COSEM - 8-11.
del: Komunikacijski profil za območje polja mrežnega omrežja Wi-SUN

Electricity metering data exchange - The DLMS/COSEM suite - Part 8-11:
Communication profile for Wi-SUN field area mesh networks

Échange des données de comptage de l'électricité - La suite DLMS/COSEM - Partie 8-11: Profil de communication pour réseaux de terrain radio maillés Wi-SUN

Ta slovenski standard je istoveten z: prEN IEC 62056-8-11:2025

<https://standards.iteh.ai/catalog/standards/sist/13c85234-01e2-42f7-9bac-a41a1927e10f/osist-pren-iec-62056-8-11-2025>

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
35.110	Omreževanje	Networking
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

oSIST prEN IEC 62056-8-11:2025 en



COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62056-8-11 ED1

DATE OF CIRCULATION:

2025-01-10

CLOSING DATE FOR VOTING:

2025-04-04

SUPERSEDES DOCUMENTS:

13/1854/NP, 13/1862/RVN

IEC TC 13 : ELECTRICAL ENERGY MEASUREMENT AND CONTROL

SECRETARIAT:

Hungary

SECRETARY:

Mr Bela Bodi

OF INTEREST TO THE FOLLOWING COMMITTEES:

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).

TITLE:

Electricity metering data exchange – The DLMS/COSEM suite**Part 8-11: Communication profile for Wi-SUN field area mesh networks**

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

Copyright © 2024 International Electrotechnical Commission, IEC. All rights reserved. It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of preparing National Committee positions. You may not copy or "mirror" the file or printed version of the document, or any part of it, for any other purpose without permission in writing from IEC.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

Part 8-11: Wi-SUN® Profile**FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 62056-8-11 has been prepared by working group 14: Data exchange for meter reading tariff and load control of IEC Technical Committee 13: Electrical energy measurement and control. It is an International Standard.

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be:

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ACKNOWLEDGEMENT

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

DLMS® is a registered trademark of the DLMS User Association, Zug, Switzerland, www.DLMS.com.

Wi-SUN®, Wi-SUN Alliance™, Wi-SUN FAN™ and the  ® Logo are trademarks owned by the Wi-SUN Alliance, Inc.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[oSIST prEN IEC 62056-8-11:2025](https://standards.iteh.ai/catalog/standards/sist/13c85234-01e2-42f7-9bac-a41a1927e10f/osist-pren-iec-62056-8-11-2025)

<https://standards.iteh.ai/catalog/standards/sist/13c85234-01e2-42f7-9bac-a41a1927e10f/osist-pren-iec-62056-8-11-2025>

CONTENTS

70		
71		
72		
73	FOREWORD	2
74	1 Scope	5
75	2 Normative references	5
76	2.1 Wi-SUN profile.....	6
77	2.1.1 General	6
78	2.1.2 Profile description	6
79	2.1.3 Use of the communication layers for this communication profile	7
80	2.1.4 Identification and addressing schemes	12
81	2.1.5 Specific considerations for the application layer services	12
82	2.1.6 Communication configuration and management.....	14
83	2.1.7 The COSEM application process	14
84	Bibliography	15
85		
86	Figure 1 – Communication architecture	6
87	Figure 2 – Wi-SUN Architecture (Layer 3 routing)	7
88	Figure 3 – Wi-SUN communication profile diagram	8
89	Figure 4 – Service mapping	10
90		
91	Table 1 – FANSPEC to Wi-SUN setup IC attribute mapping.....	11
92	Table 2 – Join states	11
93	Table 3 – UDP port numbering	12

oSIST prEN IEC 62056-8-11:2025

<https://standards.iteh.ai/catalog/standards/sist/13c85234-01e2-42f7-9bac-a41a1927e10f/osist-pren-iec-62056-8-11-2025>