SLOVENSKI STANDARD
SIST EN 61334-4-512:2004

01-maj-2004

Distribution automation using distribution line carrier systems - Part 4-512: Data communication protocols - System management using profile 61334-5-1 - Management Information Base (MIB) (IEC 61334-4-512:2001)

Distribution automation using distribution line carrier systems -- Part 4-512: Data communication protocols - System management using profile 61334-5-1 - Management Information Base (MIB)

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Verteilungsautomatisierung mit Hilfe von Trägersystemen auf Verteilungsleitungen -- Teil 4-512: Datenkommunikationsprotokolle - Systemverwaltung bei Anwendung des Profils nach IEC 61334-5-1 - Management-Informationsbasis (MIB)

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Automatisation de la distribution à l'aide de systèmes de communication à courants porteurs -- Partie 4-512: Protocoles de communication de données - Administration de systèmes à l'aide du profil 61334-5-1 - MIB (Base d'Informations d'Administration)

Ta slovenski standard je istoveten z: **EN 61334-4-512:2002**

ICS:

33.040.40	Podatkovna komunikacijska omrežja	Data communication networks
33.200	Daljinsko krmiljenje, daljinske meritve (telemetrija)	Telecontrol. Telemetering

SIST EN 61334-4-512:2004 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD **EN 61334-4-512**

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English version

Distribution automation using distribution line carrier systems Part 4-512: Data communication protocols – System management using profile 61334-5-1 – Management Information Base (MIB)

(IEC 61334-4-512:2001)

Automatisation de la distribution à l'aide de systèmes de communication à courants porteurs Partie 4-512: Protocoles de communication de données - Administration de systèmes à l'aide du profil 61334-5-1 - MIB (Base d'Informations d'Administration) (CEI 61334-4-512:2001)

Verteilungsautomatisierung mit Hilfe von Trägersystemen auf Verteilungsleitungen Teil 4-512: Datenkommunikations-protokolle – Systemverwaltung bei Anwendung des Profils nach IEC 61334-5-1 - Management-Informationsbasis (MIB) (IEC 61334-4-512:2001)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC
European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Ref. No. EN 61334-4-512:2002 E

SIST EN 61334-4-512:2004

Foreword

The text of document 57/544/FDIS, future edition 1 of IEC 61334-4-512, prepared by IEC TC 57, Power system control and associated communications, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61334-4-512 on 2002-02-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2002-11-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-02-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61334-4-512:2001 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 61334-4-1	1996	Distribution automation using distribution line carrier systems Part 4: Data communication protocols -- Section 1: Reference model of the communication system	EN 61334-4-1	1996
IEC 61334-4-32	1996	Part 4: Data communication protocols -- Section 32: Data link layer - Logical link control (LLC)	EN 61334-4-32	1996
IEC 61334-4-41	1996	Part 4: Data communication protocols -- Section 41: Application protocols - Distribution line message specification	EN 61334-4-41	1996
IEC 61334-4-42	1996	Part 4: Data communication protocols -- Section 42: Application protocols - Application layer	EN 61334-4-42	1996
IEC 61334-4-511	2000	Part 4-511: Data communication protocols - Systems management - CIASE protocol	EN 61334-4-511	2000
IEC 61334-5-1	2001	Part 5-1: Lower layer profiles - The spread frequency shift keying (S-FSK) profile	EN 61334-5-1	2001
ISO/IEC 7498-1	1994	Information technology - Open systems interconnection - Basic reference model Part 1: The basic model	EN ISO/IEC 7498-1	1995
ISO/IEC 7498-3	1997	Part 3: Naming and addressing	-	-
ISO/IEC 7498-4	1989	Part 4: Management framework	-	-
ISO/IEC 8509	1987	Information processing systems - Open Systems Interconnection - Service conventions	-	-
ISO/IEC 9545	1994	Information technology - Open Systems Interconnection - Application Layer structure	-	-

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Partie 4-512: Protocoles de communication de données – Administration de systèmes à l'aide du profil 61334-5-1 – MIB (Base d'informations d'Administration)

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Distribution automation using distribution line carrier systems –

Part 4-512: Data communication protocols – System management using profile 61334-5-1 – Management Information Base (MIB)

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SIST EN 61334-4-512:2004

CONTENTS

iTeh STANDARD PREVIEW
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SIST EN 61334-4-512:2004
https://standards.iteh.ai/catalog/standards/sist/bddf55e0-e8d3-4333-b380-efefc1525d94/sist-en-61334-4-512-2004

SIST EN 61334-4-512:2004

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DISTRIBUTION AUTOMATION USING DISTRIBUTION LINE CARRIER SYSTEMS –

Part 4-512: Data communication protocols – System management using profile 61334-5-1 – Management Information Base (MIB)

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.

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3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

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5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61334-4-512 has been prepared by IEC technical committee 57: Power system control and associated communications.

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

FDIS	Report on voting
57/544/FDIS	57/562/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.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

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DISTRIBUTION AUTOMATION USING DISTRIBUTION LINE CARRIER SYSTEMS –

Part 4-512: Data communication protocols – System management using profile 61334-5-1 – Management Information Base (MIB)

1 Scope

This part of IEC 61334 specifies the DCP Management Information Base (MIB). This MIB is used for the management of the communication profile defined by the following standards: IEC 61334-5-1 (Physical and MAC sublayer), IEC 61334-4-32 (LLC sublayer), IEC 61334-4-42 (Application protocols), and IEC 61334-4-41 (DLMS).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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IEC 61334-4-1:1996, *Distribution automation using distribution line carrier systems – Part 4: Data communication protocols – Section 1: Reference model of the communication system*

IEC 61334-4-32:1996, *Distribution automation using distribution line carrier systems – Part 4: Data communication protocols – Section 32: Data link layer – Logical link control (LLC)*

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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*

IEC 61334-4-42:1996, *Distribution automation using distribution line carrier systems – Part 4: Data communication protocols – Section 42: Application protocols – Application layer*

IEC 61334-4-511:2000, *Distribution automation using distribution line carrier systems – Part 4-511: Data communication protocols – Systems management – CIASE protocol*

IEC 61334-5-1:2001, *Distribution automation using distribution line carrier systems – Part 5-1: Lower layer profiles – The spread frequency shift keying (S-FSK) profile*

ISO/IEC 7498-1:1994, *Information technology – Open Systems Interconnection – Basic Reference Model – Part 1: The Basic Model*

ISO/IEC 7498-3:1997, *Information technology – Open Systems Interconnection – Basic Reference Model – Part 3: Naming and addressing*

ISO/IEC 7498-4:1989, *Information technology – Open Systems Interconnection – Basic Reference Model – Part 4: Management framework*

ISO/IEC 8509:1987, *Information processing systems – Open Systems Interconnection – Service conventions*

ISO/IEC 9545:1994, *Information technology – Open Systems Interconnection – Application Layer structure*

SIST EN 61334-4-512:2004

3 Definitions

For the purpose of this part of IEC 61334, the following terms as defined in ISO/IEC 7498-1, ISO/IEC 7498-3, ISO/IEC 7498-4, ISO/IEC 8509, ISO/IEC 9545, IEC 61334-4-1, IEC 61334-4-41, IEC 61334-4-42 and IEC 61334-4-511 and the additional definition apply.

3.1 ISO/IEC 7498

a) open system,

b) application-process,

c) (N)-layer,

d) (N)-sublayer,

e) (N)-service,

f) (N)-service-access-point,

g) (N)-protocol,

h) (N)-protocol-data-unit,

i) (N)-service-data-unit,

j) systems-management,

k) application-entity,

l) application-service-element,

m) user-element.

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3.2 ISO/IEC 7498-3

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a) (N)-address,

b) (N)-selector,

c) (N)-association,

d) (N)-directory-function,

e) (N)-entity,

f) (N)-entity-title,

g) system-title.

3.3 ISO/IEC 7498-4

a) Systems management application-entity,

b) OSI Management,

c) Management Object,

d) Management Information Base.

SIST EN 61334-4-512:2004

3.4 ISO/IEC 8509

a) primitive,
b) request,
c) indication,
d) response,
e) confirm.

3.5 ISO/IEC 9545

a) application-context.

3.6 IEC 61334-4-1

a) NEW-address,
b) AllSMAE-Title.

3.7 IEC 61334-4-41

a) client,
b) server,
c) Virtual Distribution Equipment (VDE).

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3.8 IEC 61334-4-42

a) application context.

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3.9 IEC 61334-4-511

a) initiator,
b) active initiator,
c) new/authorized systems,
d) manager,
e) new system,
f) new system title,
g) registered system,
h) reporting system,
i) system.

3.10

application-identifier
identifies an application in a system. Two applications associated with the same VDE-type attribute cannot have the same application-identifier.