

SLOVENSKI STANDARD
SIST EN 61162-450:2011/A1:2016
01-julij-2016

Pomorska navigacijska in radiokomunikacijska oprema in sistemi - Digitalni vmesniki - 450. del: Več govorcev in poslušalcev - Mrežna povezava prek eterneta - Dopolnilo A1

Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

Navigations- und Funkkommunikationsgeräte und -systeme für die Seeschifffahrt - Digitale Schnittstellen - Teil 450: Mehrere Datensenden und mehrere Datenempfänger - Ethernet Verbund

Matériels et systèmes de navigation et de radiocommunication maritimes - Interfaces numériques - Partie 450: Emetteurs multiples et récepteurs multiples - Interconnexion Ethernet

Ta slovenski standard je istoveten z: EN 61162-450:2011/A1:2016

ICS:

33.060.01	Radijske komunikacije na splošno	Radiocommunications in general
47.020.70	Navigacijska in krmilna oprema	Navigation and control equipment

SIST EN 61162-450:2011/A1:2016 **en**

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EUROPEAN STANDARD

EN 61162-450:2011/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2016

ICS 47.020.70

English Version

Maritime navigation and radiocommunication equipment and
systems - Digital interfaces - Part 450: Multiple talkers and
multiple listeners - Ethernet interconnection
(IEC 61162-450:2011/A1:2016)

Matériels et systèmes de navigation et de
radiocommunication maritimes - Interfaces numériques -
Partie 450: Emetteurs multiples et récepteurs multiples -
Interconnexion Ethernet
(IEC 61162-450:2011/A1:2016)

Navigations- und Funkkommunikationsgeräte und -systeme
für die Seeschifffahrt - Digitale Schnittstellen - Teil 450:
Mehrere Datensenden und mehrere Datenempfänger -
Ethernet Verbund
(IEC 61162-450:2011/A1:2016)

This amendment A1 modifies the European Standard EN 61162-450:2011; it was approved by CENELEC on 2016-05-05. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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 61162-450:2011/A1:2016**European foreword**

The text of document 80/795/FDIS, future IEC 61162-450:2011/A1, prepared by IEC/TC 80 "Maritime navigation and radiocommunication equipment and systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61162-450:2011/A1:2016.

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) 2017-02-05
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-05-05

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 61162-450:2011/A1:2016 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:

Addition:

IEC 61174

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SIST EN 61162-450:2011/A1:2016
NOTE Harmonized as EN 61174.
<https://standards.iteh.ai/catalog/standards/sist/61162-450-03f0-4ac8-bacc-bf9207c7b10c/sist-en-61162-450-2011-a1-2016>

Delete

IEC 61996-1

NOTE Harmonized as EN 61996-1

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.

Addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61996-1	-	Maritime navigation and radiocommunication equipment and systems - Shipborne voyage data recorder (VDR) -- Part 1: Performance requirements, methods of testing and required test results	EN 61996-1	-

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IEC 61162-450

Edition 1.0 2016-03

INTERNATIONAL STANDARD

AMENDMENT 1

**Maritime navigation and radiocommunication equipment and systems – Digital
interfaces –
Part 450: Multiple talkers and multiple listeners – Ethernet interconnection**

[SIST EN 61162-450:2011/A1:2016](https://standards.iteh.ai/catalog/standards/sist/6b830645-03f0-4ac8-bace-bf9207c7b10c/sist-en-61162-450-2011-a1-2016)

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INTERNATIONAL
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ICS 47.020.70

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FOREWORD

This amendment has been prepared by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

The amendment corrects sundry issues which have been identified from the use of the standard and in particular corrects the checksums in many of the sentence examples.

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

FDIS	Report on voting
80/795/FDIS	80/796/RVD

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

The committee has decided that the contents of this amendment and the base 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.

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A bilingual version of this standard may be issued at a later date.
<https://standards.iteh.ai/catalog/standards/sist/66830649-0510-4ac8-bacc-bf9207c7b10c/sist-en-61162-450-2011-a1-2016>

2 Normative references

Insert, after publication reference IEC 61162-1, the following new reference:

IEC 61996-1, *Maritime navigation and radiocommunication equipment and systems – Shipborne voyage data recorder (VDR) – Part 1: Performance requirements, methods of testing and required test results*

3 Terms and definitions

3.11 message type

Replace, in the definition and in the note, the acronym SMB by SBM, as follows:

classification of IEC 61162-1 sentence formatters into SBM, MSM and CRP types

NOTE 1 SBM, MSM and CRP types are defined in Annex A.

4.2.2 Additional requirements for network infrastructure equipment

Add, at the end of the existing notes, the following new note:

NOTE 3 Although multicast filtering techniques, such as IGMP snooping or CGMP, are not allowed to be activated, it is acceptable to manually configure individual ports of the switches to block unnecessary traffic flow (for example to isolate simple sensors from ECDIS and radar).

Table 4 – Destination multicast addresses and port numbers

Add, at the end of Table 4, the following new note:

NOTE The USR1 to USR8 transmission groups can be used, for example, for proprietary data in binary format.

Table 5 – Destination multicast addresses and port numbers for binary data transfer

Replace the existing Table 5 by the new Table 5, as follows:

Category	Multicast address	Destination port
Simple Binary image transfer ^a	239.192.0.21 to 239.192.0.25	60021 to 60025
Re-transmittable binary image transfer ^b	239.192.0.26 to 239.192.0.30	60026 to 60030
^a Address 239.192.0.25, port 60025 is the recommended default for ECDIS route transfer (see IEC 61174). ^b Address 239.192.0.26, port 60026 is the recommended default for VDR image transfer (see IEC 61996-1). Address 239.192.0.30, port 60030 is the recommended default for ECDIS re-transmittable data blocks for route transfer (see IEC 61174).		

7.2.3.3 Grouping control – g

Replace, in the fifth paragraph, the existing sentences by the following two sentences:

```

\g:1-2-34*59\!ABVDM,1,1,1,B,100000?0?wJm4:`GMUrf40g604:4,0*04
\g:2-2-34*5A\!$ABVSI,r3669961,1,013536.96326433,1386,-98,,*14
\g:1-2-46*5C\!ABVDM,1,1,1,B,15N1u<PP1cJnFj:GV4>:MOw:0<02,0*2D
\g:2-2-46*5F\!$ABVSI,r3669962,1,013538.05654921,1427,-101,,*20

```

7.2.3.7 Text string parameter – t (Proprietary data)

Replace, in the last paragraph, the existing sentences by the following sentences:

```

\g:1-2-34,s:TI0001,n:333*6B\!$TIROT,123.45*67
\g:2-2-34,n:334,t:pmmma;MD5;0x12345678*74\

```

7.3.1 Application of this protocol

Delete, after the second paragraph, the existing note.