



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61162-402:2005

ICS 47.020.70

**MARITIME NAVIGATION AND  
RADIOCOMMUNICATION EQUIPMENT AND  
SYSTEMS - DIGITAL INTERFACES -- PART  
402: MULTIPLE TALKERS AND MULTIPLE  
LISTENERS - SHIP SYSTEMS  
INTERCONNECTIONS - DOCUMENTATION  
AND TEST REQUIREMENTS**

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EUROPEAN STANDARD

**EN 61162-402**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 47.020.70

English version

**Maritime navigation and radiocommunication equipment and systems –  
Digital interfaces  
Part 402: Multiple talkers and multiple listeners –  
Ship systems interconnection –  
Documentation and test requirements  
(IEC 61162-402:2005)**

Matériels et systèmes de navigation  
et de radiocommunication maritimes –  
Interfaces numériques  
Partie 402: Emetteurs et récepteurs  
multiples –  
Interconnexion des systèmes maritimes –  
Documentation et exigences d'essai  
(CEI 61162-402:2005)

Navigations- und Funk-  
kommunikationsgeräte und -systeme  
für die Seeschifffahrt –  
Digitale Schnittstellen  
Teil 402: Mehrere Datensender und  
mehrere Datenempfänger –  
Schiffssystemzusammenschaltung –  
Dokumentation und Prüfanforderungen  
(IEC 61162-402:2005)

This European Standard was approved by CENELEC on 2005-10-01. 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 Central Secretariat or to any CENELEC member.

This European Standard exists in two official versions (English, 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.

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**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**

## Foreword

The text of document 80/411/FDIS, edition 1 of IEC 61162-402, prepared by IEC TC 80, Maritime navigation and radiocommunication equipment and systems, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61162-402 on 2005-10-01.

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) 2006-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-10-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61162-402:2005 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

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.

NOTE Where 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 60092-504	- <sup>1)</sup>	Electrical installations in ships Part 504: Special features - Control and instrumentation	-	-
IEC 60945	- <sup>1)</sup>	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results	EN 60945	2002 <sup>2)</sup>
IEC 61162-4xx	Series	Maritime navigation and radio-communication equipment and systems - Digital interfaces Part 4xx: Multiple talkers and multiple listeners - Ship systems interconnection	EN 61162-4xx-	Series
IEC 61162-400	- <sup>1)</sup>	Part 400: Multiple talkers and multiple listeners - Ship systems interconnection - Introduction and general principles	EN 61162-400	2002 <sup>2)</sup>
IEC 61162-401	- <sup>1)</sup>	Part 401: Multiple talkers and multiple listeners - Ship systems interconnection - Application profile	EN 61162-401	2002 <sup>2)</sup>
IEC 61162-410	- <sup>1)</sup>	Part 410: Multiple talkers and multiple listeners - Ship systems interconnection - Transport profile requirements and basic transport profile	EN 61162-410	2002 <sup>2)</sup>
IEC 61162-420	- <sup>1)</sup>	Part 420: Multiple talkers and multiple listeners - Ship systems interconnection - Companion standard requirements and basic companion standards	EN 61162-420	2002 <sup>2)</sup>

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1) Undated reference.

2) Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61209	- <sup>1)</sup>	Maritime navigation and radiocommunication equipment and systems - Integrated bridge systems (IBS) - Operational and performance requirements, methods of testing and required test results	EN 61209	1999 <sup>2)</sup>
IEC 61508-3	- <sup>1)</sup>	Functional safety of electrical/electronic/programmable electronic safety-related systems Part 3: Software requirements	EN 61508-3	2001 <sup>2)</sup>
IEC 61508-4	- <sup>1)</sup>	Part 4: Definitions and abbreviations	EN 61508-4	2001 <sup>2)</sup>
ISO 9001	2000	Quality management systems - Requirements	EN ISO 9001	2000
ISO/IEC 90003	2004	Software engineering - Guidelines for the application of ISO 9001:2000 to computer software	-	-

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