



BSI Standards Publication

## Maritime navigation and radiocommunication equipment and systems – Digital interfaces

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Part 103: Single talker and multiple listeners –  
New and amended sentences and Talker IDs

## National foreword

This Published Document is the UK implementation of IEC PAS 61162-103:2021.

The UK participation in its preparation was entrusted to Technical Committee EPL/80, Maritime navigation and radiocommunication equipment and systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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# PUBLICLY AVAILABLE SPECIFICATION PRE-STANDARD

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**Maritime navigation and radiocommunication equipment and systems – Digital interfaces –  
Part 103: Single talker and multiple listeners – New and amended sentences and Talker IDs**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MARITIME NAVIGATION AND RADIOCOMMUNICATION  
EQUIPMENT AND SYSTEMS – DIGITAL INTERFACES –****Part 103: Single talker and multiple listeners –  
New and amended sentences and Talker IDs**

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IEC PAS 61162-103 has been processed by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

The text of this PAS is based on the following document:

This PAS was approved for publication by the P-members of the committee concerned as indicated in the following document

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80/985/DPAS	80/992/RVDPAS

Following publication of this PAS, which is a pre-standard publication, the technical committee or subcommittee concerned may transform it into an International Standard.

This PAS shall remain valid for an initial maximum period of 2 years starting from the publication date. The validity may be extended for a single period up to a maximum of 2 years, at the end of which it shall be published as another type of normative document, or shall be withdrawn.

## INTRODUCTION

This document is circulated as an IEC Publicly Available Specification (IEC/PAS). This agreed process allows the new information needed to implement new sentences in a shorter time-scale than revising the appropriate international standards. This document provides information on sentences to support more functionality than available in the published 5<sup>th</sup> edition of IEC 61162-1.

This PAS has been developed in conjunction with the IEC TC 80 WG6 and the NMEA.

This PAS will be replaced at a future date by, or be included within, a revision of IEC 61162-1.

**MARITIME NAVIGATION AND RADIOCOMMUNICATION  
EQUIPMENT AND SYSTEMS – DIGITAL INTERFACES –**

**Part 103: Single talker and multiple listeners –  
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**1 Scope**

IEC 61162-1:2016 supports the transfer of data between various equipment. This document specifies more equipment Talker IDs, amends existing sentences and introduce new sentences to facilitate more functionality between equipment.

**2 New content to IEC 61162-1**

**2.1 Field definitions**

Additional field definitions are indicated in Table 1.

**Table 1 – Talker identifier mnemonics**

Talker device	Identifier
Automation – Alarm and monitoring system	JA
Automation – Reefer monitoring system	JB
Automation – Power management system	JC
Automation – Propulsion control system	JD
Automation – Engine control console	JE
Automation – Propulsion boiler	JF
Automation – Auxiliary boiler	JG
Automation – Electronic governor system	JH
Night vision	NV
Electronic record book	RB
Rudder angle indicator	RI
Steering control system/device	SC
System managment	SM
Track control system	TC

**2.2 Approved sentences**

**2.2.1 DDC – Display dimming control**

The DDC sentence provides controls for equipment display dimming presets. display brightness percentage and selection of colour palette.

Transmitting and receiving equipment may support unidirectional or bidirectional communications as determined by the manufacturer.