



DPC: 22 / 30416022 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

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Interested committees:

Title: BS ISO 23807 Ships and marine technology - General requirements for the ship-shore data communication

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Responsible Committee Secretary: **Ms Julie Horton (BSI)**

Direct tel:

E-mail: julie.horton@bsigroup.com

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

DRAFT INTERNATIONAL STANDARD

ISO/DIS 23807

ISO/TC 8

Secretariat: SAC

Voting begins on:
2022-06-09

Voting terminates on:
2022-09-01

Ships and marine technology — General requirements for the asynchronous time-insensitive ship-shore data transmission

ICS: 47.020.70

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Sharing data and information between ships and shore for the safe and efficient operation of ships is becoming more and more common.

Regarding data sharing between ships and shore related to ports, cargo and shipping routes, standards such as Maritime Single Window and e-Navigation and discussions are in progress, and these helps to share some stylized data safely and in a timely manner between ships and shore.

On the other hand, the ship-shore communication environment is still narrower than those on land, and its connection is unstable. Therefore, a method for stably and efficiently sharing files of any format with a relatively large file size, such as various data and image files used in ship operation business applications, between ships and shore has not yet been standardized.

For example, in ship operations, onboard and on-shore application users determine the timing of data transmission / reception in consideration of the connection status and communication quality of ship-shore communication each time, and perform data retransmission processing independently for each application.

In order to further promote safe and efficient operation of ships, it is increasingly necessary to be able to send and receive files between ships and shore in a stable and efficient manner asynchronously without being affected by the ship-shore communication status.

Asynchronous communication here intends the communication and/or application processing perspective such as time-insensitive data transmission for non-real-time applications where the timing of the data generating and consuming may be different.

In addition, though ISO 19847 and ISO 19848 have been standardized for efficient collection and storage of data for ship equipment systems, the method of asynchronously transmitting and receiving a large amount of ship equipment data accumulated on board between ships and shore has not been standardized yet. In order to promote shore support for ship operation and maintenance of onboard equipment systems, there is a need for a stable and efficient method for transmitting and receiving such onboard field data asynchronously between ships and shore.

ISO23807 specifies the functional requirements but does not intend to specify technical protocols.