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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42054-2022

**Ships and marine technology - Shipboard data servers to share
field data at sea**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 19847:2018 "Ship and Offshore Technology Shipborne Maritime Shared Data Server".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies requirements for an onboard data server that is used to collect data from other onboard machinery and systems

The collected data is further shared in a fully efficient manner.

The communication protocols specified in this document refer to the data structures of ISO 19848.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document.

1) ISO 8601:2004 has been abolished and has been replaced by ISO 8601-1:2019 and ISO 8601-2:2019.

Note. GB/T 7408-2005 Data Element and Interchange Format Information Exchange Date

and Time Representation (ISO 8601.2000, IDT)

tems)

Note. GB/T 42055-2022 Ship and Offshore Technology Shipborne Machinery and Equipment Data Format (ISO 19848.2018, IDT)

IEC 60092-504.2016 Ship Electrical Equipment Part 504.Special Control and Measuring Instruments (Electricalinstalla-

Note. GB/T 28561-2012 Control and Measuring Instruments for Ship Electrical Equipment (IEC 60092-504.2001, IDT)

IEC 61162-1 Maritime Navigation and Radiocommunication Equipment and Systems Digital Interface Part 1.Single and Multiple Receivers

IEC 61162-450 Digital interfaces for maritime navigation and radiocommunication equipment and systems Part 450.Multi-speaker and multi-speaker

Note. GB/T 31843.450-2019 Maritime Navigation and Radio Communication Equipment and Systems Digital Interface Part 450.Multi-speaker and multi-receiver

Ethernet connection (IEC 61162-450.2018, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.