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Ships and marine technology — Shipboard data servers ~~to share~~ for sharing field data at sea

Navires et technologie maritime — Serveurs de données embarqués pour partager les données de terrain en mer

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Foreword

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This document was prepared by Technical Committee ISO/TC 8, *Ships and Marine technology*, Subcommittee SC6, *Navigation and ship operations*.

This second edition cancels and replaces the first edition (ISO 19847:2018), which has been technically revised.

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The main changes are as follows:

- In Clause 7, a specific security requirement on the shipboard data server has been added.
- In Clause 8, a test standard in a tabular arrangement of test objectives, conditions, methods, and test criteria has been added.
- In Annex H, implementation requirements for the calculation function have been added.
- In Clause 5, additional examples of an output statement for reporting status have been added.
- In Clause 6, an additional output function with JSON data has been added.

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- In Annex C, additional query parameters to designate date and time, search for partial matches of Local IDs and obtain down sampling data have been added.

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Introduction

Shipboard computer applications ~~for operating to ensure~~ ships ~~operate~~ safely and efficiently are becoming increasingly popular.

~~It is necessary for these~~ These applications ~~to require~~ access ~~to data which is~~ provided by shipboard machinery and equipment.

Navigational instruments can use the ~~IEC 61162~~ series of standards when exchanging data, but access to other shipboard machinery and systems to obtain data has not yet been ~~standardised~~ standardized.

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For the purpose of sharing field data at sea, including non-~~standardised~~ standardized machinery data, ~~ISO 19847~~ this document specifies requirements for performance, function, service and safety for the shipboard data server that stores data from shipboard machinery and equipment, and sends stored data off the ship.

The shipboard data server is connected to an information network that is specified in ~~ISO 16425~~. The requirements for cyber security on the shipboard data server are specified.

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