INTERNATIONAL STANDARD

ISO 24060

First edition
2021-07

Ships and marine technology — Ship software logging system for operational technology

iTeh Standards
(https://standards.iteh.ai)
Document Preview

ISO 24060:2021
https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021

Reference number
ISO 24060:2021(E)

© ISO 2021

iTeh Standards
(https://standards.iteh.ai)
Document Preview

ISO 24060:2021
https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021

COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

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

Published in Switzerland

 © ISO 2021 – All rights reserved

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Technology design **3**
4.1 Updateable equipment inventory 3
4.1.1 General 3
4.1.2 Equipment details 4
4.2 SSLS software and hardware requirements 4
4.2.1 General requirements 4
4.2.2 SSLS Connected equipment automatic logging requirements 5
4.2.3 Log entry data requirements 5
4.2.4 SSLS host computer requirements 6
4.2.5 Cybersecurity requirements for SSLS 6
4.2.6 Functionality requirements for SSLS user interface 7
4.2.7 Connected equipment monitoring requirements 7
Bibliography **8**

iTeh Standards
(https://standards.iteh.ai)
Document Preview

ISO 24060:2021
https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021

© ISO 2021 – All rights reserved

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

iTeh Standards
(https://standards.iteh.ai)
Document Preview

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 11, *Intermodal and Short Sea Shipping*.

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.

https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021

 © ISO 2021 – All rights reserved

Introduction

Ships have more and more equipment with updateable software on-board. Current requirements for on-board use of computer-based systems require a software registry for such equipment (IACS URE22rev2), but these registries are not defined, can be difficult to understand and use, and are often not updated. This is partly caused by the increasing quantity of computer equipment and applicable regulations creating additional work for crew, shipping companies and other stakeholders. This situation makes staying current on software updates more difficult, which also introduces increased risks of equipment problems. This document began its development based on a 2017 CIRM-BIMCO industry standard for software maintenance procedures.

This document defines a ship software logging system (SSLS) for shipboard equipment software. Recognizing that maintenance of shipboard software is a major undertaking, this first edition initially sets base characteristics. The SSLS can be used by various users and log data from various types of equipment. It is expected that this document will evolve over time together with related regulations and as experience on the use of the introduced concept accumulates.

This document considers the following:

— cyber risk management is incorporated into the design and use of the SSLS;

— equipment messages pass from the equipment to the SSLS automatically when possible;

— the equipment sends standard version messages with software version information on appropriate time intervals.

iTeh Standards
(https://standards.iteh.ai)
Document Preview

ISO 24060:2021
https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021

© ISO 2021 – All rights reserved

iTeh Standards
(https://standards.iteh.ai)
Document Preview

ISO 24060:2021
https://standards.iteh.ai/catalog/standards/iso/e480fd6c-a645-4cf5-990f-c3662e85ac86/iso-24060-2021