



Edition 1.0 2025-07

INTERNATIONAL STANDARD

Information technology - Home electronic system (HES) interfaces -Part 4-3: Common user interface and cluster-to-cluster interface to support interworking among home cluster systems - Messaging

Document Preview

ISO/IEC 10192-4-3:2025

https://standards.iteh.ai/catalog/standards/iso/2af47c61-e0af-4ed0-b2d8-0d82696862e2/iso-iec-10192-4-3-2025



THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2025 ISO/IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Secretariat 3, rue de Varembé CH-1211 Geneva 20 Switzerland Tel.: +41 22 919 02 11 info@iec.ch www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search -

webstore.iec.ch/advsearchform

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

IEC Customer Service Centre - webstore.iec.ch/csc If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

IEC Products & Services Portal - products.iec.ch

Discover our powerful search engine and read freely all the publications previews, graphical symbols and the glossary. With a subscription you will always have access to up to date content tailored to your needs.

Electropedia - www.electropedia.org

The world's leading online dictionary on electrotechnology, containing more than 22 500 terminological entries in English and French, with equivalent terms in 25 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.



ISO/IEC 10192-4-3:2025

https://standards.iteh.ai/catalog/standards/iso/2af47c61-e0af-4ed0-b2d8-0d82696862e2/iso-iec-10192-4-3-2025

ISO/IEC 10192-4-3:2025 © ISO/IEC 2025

CONTENTS

FOREW	ORD	3	
INTRO	DUCTION	5	
1 Sc	pe	7	
2 No	2 Normative references		
3 Te	ms, definitions, and abbreviated terms	8	
3.1	Terms and definitions	8	
3.2	Abbreviated terms	9	
4 Co	nformance	9	
5 Me	ssaging architecture for CUI	9	
6 Me	ssaging for handling devices	11	
6.1	Operations	11	
6.1	.1 CUI messaging over the C2C interface	11	
6.1	.2 CUI messaging within the HES gateway	11	
6.1	.3 CUI messaging within a cluster or the separate device	12	
6.2	HES-CLIP messaging flows	12	
6.2	-		
6.2			
6.2			
6.2			
6.2			
6.2			
6.3 7 Me	HES-CLDPE messaging flows ssaging for user obj <mark>ect relationship</mark>		
	ssaging for C2C authorization		
	ssaging for C2C interface		
	/acy, security, and safety considerations		
Bibliogr	aphy	24	
Figure ⁻	 Core interoperability and HES standards 	6	
Figure 2	e – HES gateway applications standards	6	
Figure 3	- Messaging architecture of alternative #1: common user interface in a clus	ter10	
	 Messaging architecture of alternative #2: common user interface in a device 		
	 Messaging architecture of alternative #3: common user interface in a module 		
Figure (6 – CUI messaging within a cluster or a separate device	12	
Figure	′ – Messaging flow for retrieval of all devices of a user	13	
Figure 8	A Messaging flow for retrieval of a device property	14	
-	 Messaging flow for update of a device property 		
-	0 – Messaging flow for subscription to an event of a device		
-	 Messaging flow for notification of an event of a device 		
-	2 – User object relationships		
-	3 – Messaging for setup of user object relationship		
-			
rigure	4 – Messaging flow for creating a user identity federation	Z	

ISO/IEC 10192-4-3:2025 © ISO/IEC 2025

Figure 15 – Messaging flow for adding a user identity into existing federation22	2
Figure 16 – Messaging flow for issuing, using and verifying an access token	3
Table 1 – Description of messages for retrieval of all devices of a user	3
Table 2 – Description of parameters in HES-CLIP messages for retrieval of all devices of a user	4
Table 3 – Description of messages for retrieval of a device property	5
Table 4 – Description of parameters in HES-CLIP messages for retrieval of a device property 1	5
Table 5 – Description of messages for update of a device property10	6
Table 6 – Description of parameters in HES-CLIP messages for update of a device property 1	7
Table 7 – Description of messages for subscription to an event of a device 18	8
Table 8 – Description of parameters in HES-CLIP messages for subscription to an event of a device	8
Table 9 – Description of messages for notification of an event of a device 19	9
Table 10 – Description of parameters in HES-CLIP messages for notification of an event of a device	9

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

ISO/IEC 10192-4-3:2025

https://standards.iteh.ai/catalog/standards/iso/2af47c61-e0af-4ed0-b2d8-0d82696862e2/iso-iec-10192-4-3-2025