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Interested committees:

Title: BS EN IEC 63430 Data container format for wearable sensor

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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.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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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.	



100/3949/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 63430 ED1

DATE OF CIRCULATION:

2023-06-09

CLOSING DATE FOR COMMENTS:

2023-09-01

SUPERSEDES DOCUMENTS:

100/3672/NP, 100/3720/RVN

IEC TA 18 : MULTIMEDIA HOME SYSTEMS AND APPLICATIONS FOR END-USER NETWORKS

SECRETARIAT:

Japan

SECRETARY:

Mr Keisuke Koide

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 124,SyC AAL

PROPOSED HORIZONTAL STANDARD:

☐

Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

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Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE AC/22/2007 OR NEW GUIDANCE DOC).

TITLE:

Data Container for Wearable Sensor

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONTAINER FORMAT FOR SENSOR DATA OF WEARABLES

FOREWORD

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International Standard IEC XXXXX has been prepared by Technical Area 18: Multimedia home systems and applications for end-user networks, of IEC Technical Committee 100: Audio, video and multimedia systems and equipment.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
100/XX/FDIS	100/XX/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

The National Committees are requested to note that for this document the stability date is 20XX..

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

INTRODUCTION

TC100 is developing International Standard (IS) for Container format for sensor data to define the container format for sensing data and its system requirements.

This IS captures the results the work of TC100 Technical Area 18 on multimedia home systems and applications for end-user networks. The current document reflects contributions and discussions by TC100 experts, mirror committees, liaison members. This IS contains material gathered from reports and group output from the TC100 meetings in May 2019 (London), October 2019 (Shanghai), October 2020 (Online), May 2021 (Online) as well as information obtained during various web meetings.

This document is also positioned as a result of the activities of a collaboration framework between TC100, IEC SyC. AAL and TC124. At the IEC General Meeting in Busan in 2018, three Committees related to wearable systems and technologies, SyC. AAL, TC 100 and TC 124 had a joint workshop and agreed to collaborate for developing relevant standards and to have their roll sharing. This collaboration agreement was advanced to a Joint Advisory Group (JAG) and the JAG was established managed by SyC. AAL in 2019.

The target audience for the IS include the following stakeholders who have an interest in the systems and services using wearable devices:

- Consumer Electronics (CE) and Information Communications Technology (ICT) device manufacturers.
- System integrators who want to utilize wearable device and technologies.
- Service operators who are interested in the AAL and multimedia systems and services.
- Stakeholders who want to understand the technologies and requirements for wireless connectivity between wearable sensor nodes and hub coordinator.

CONTAINER FORMAT FOR SENSOR DATA OF WEARABLES

1. Scope

This International Standard (IS) specifies container format for sensing data and its system requirements. This IS applies to edge computing devices such as smartphone, home gateway, multimedia coordinator etc. and cloud systems.

This document describes the following technical specifications;

- Container format for wearable sensor data,
- Schema repository that defines parameter and syntax of sensor data,
- Communication and system requirements between edge computing device and Schema repository.

2. Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[1]

3. Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

Data Container

a data structure that encapsulates one or multiple numbers of digital data. Each digital data consists of various kinds of data such as sensor signals, audio signals, video signals, metadata, programs, etc.

3.2

Schema Information

structural information that represents the data structure of a container payload.

3.3

Schema Repository

a server that stores Schema Information