

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Data container format for wearable sensor

Conteneur de données pour capteur prêt-à-porter



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DATA CONTAINER FORMAT FOR WEARABLE SENSOR

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

Draft	Report on voting
100/4141/CDV	100/4178/RVC

Full information on the voting for its approval 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 was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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INTRODUCTION

The target audience for this document includes 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 IoT and multimedia systems and services.
- Stakeholders who want to understand the technologies and requirements for wireless connectivity between wearable sensor nodes and hub coordinator.

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DATA CONTAINER FORMAT FOR WEARABLE SENSOR

1 Scope

This International Standard specifies a Container format for sensing data and its system requirements. This document applies to edge computing devices such as smartphones, home gateways, multimedia coordinators, etc., and cloud systems.

This document describes the following technical specifications:

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

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

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

3.1

Container

data structure that encapsulates one or multiple numbers of digital data

Note 1 to entry: Each piece of 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

server that stores Schema Information