BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

स्वास्थ्य सूचना विज्ञान - मानक संचार प्रोटोकॉल - कंप्यूटर-समर्थित इलेक्ट्रोकार्डियोग्राफी
[IS/ISO 11073-91064 : 2009 का पहला पुनरीक्षण]

Draft Indian Standard

Health Informatics —Standard Communication Protocol — Computer-Assisted Electrocardiography
[First Revision of IS/ISO 11073-91064 : 2009]

[ICS 35.240.80]

Health Informatics Sectional Committee, MHD 17	Last date for comments: 13 April 2024

NATIONAL FOREWORD

(*Adoption clause will be added later*)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO/IEEE 11073-10102, Health informatics — Point-of-care medical device communication —	IS/ISO/IEEE 11073-10102 : 2014, Health Informatics - Point-of-care Medical Device Communication	Identical

Part 10102: Nomenclature —   Part 10102 Nomenclature -
Annotated ECG   Annotated ECG

The technical committee responsible for the preparation of this standard has reviewed the provisions of following mentioned International Standards and has decide that they are acceptable for use in conjunction with this standard:

International Standard/ Other Publication	Title
ISO/IEC 10646	Information technology — Universal coded character set (UCS)
ISO/IEEE 11073-10101	Health informatics — Device interoperability — Part 10101: Point-of-care medical device communication — Nomenclature

Scope

This document specifies the common conventions required for the interchange of specific patient data (demographic, recording conditions ...), ECG signal data and metadata, ECG measurements and ECG annotations, and ECG interpretation results.

This document specifies the content and structure of the information which may be interchanged between digital ECG electrocardiographs/devices and computer ECG management systems, as well as other computer or information systems (cloud, etc.) where ECG data can be stored.

This document defines the way to describe and encode standard and medium to long-term electrocardiogram waveforms measured in physiological laboratories, hospital wards, clinics and primary care medical check-ups, ambulatory and home care. It covers electrocardiograms such as 12-lead, 15-lead, 18-lead, Cabrera lead, Nehb lead, Frank lead, XYZ lead, Holter ECGs and exercise ECGs that are recorded, measured and analysed by equipment such as electrocardiographs, patient monitors, wearable devices. It also covers intracardiac electrograms recorded by implantable devices as well as the analysis results of ECG analysis and interpretation systems and software that are compatible with SCP-ECG.

ECG waveforms and data that are not in the scope of this document include real-time ECG waveform encoding and analysis used for physiological monitors, and intra-cardiac or extra cardiac ECG mapping.

The technical content of the document has not been enclosed as it is identical with the corresponding ISO standard. For details, please refer to ISO 41064:2023 or kindly contact:

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