



TECHNICAL REPORT

Internet of Things (IoT) - Guidance on IoT application to home healthcare

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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The text of this Technical Report is based on the following documents:

| Draft | Report on voting |
|-------------------|---------------------|
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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 Technical Report 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 the ISO/IEC Directives, JTC 1 Supplement available at http://www.iec.ch/members_experts/refdocs and <http://www.iso.org/directives>.

INTRODUCTION

As healthcare extends beyond traditional clinical settings into the home, IoT technologies present unprecedented opportunities to enhance the quality of care, improve access to medical services, and increase healthcare delivery efficiency. Home healthcare IoT constitutes a specialized application of these technologies, intended to address the distinct requirements and challenges associated with delivering healthcare in residential environments, including real-time health monitoring, data security and privacy protection, remote diagnostics and treatment, emergency response capabilities, and seamless integration with existing healthcare systems. It includes a wide range of interconnected devices, systems, and services that monitor health, support therapeutic interventions, and facilitate communication between patients, caregivers, and healthcare providers.

1 Scope

This document provides guidance on applying IoT technologies to home healthcare systems, taking into account the specific characteristics.

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.

ISO/IEC 20924:2024, *Internet of Things (IoT) and digital twin — Vocabulary*

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