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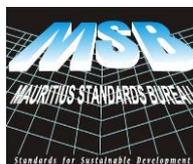
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**Internet of things (IoT) — Edge  
computing**

ICS 35.020

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**Mauritius Standards Bureau  
Moka**

## National foreword

This Technical Report is identical with the International Technical Report **ISO/IEC/TR 30164:2020**, *Internet of things (IoT) — Edge computing*. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Information Technology Standards Committee**. The standard was approved by the **Standards Council** on 18 January 2023 and notified in the Government Gazette on **25 February 2023\***.

For the purposes of this technical report the following change should be made:

- the 'decimal comma' should be replaced by the 'decimal point'.

**\*General notice No. 241 of 2023**



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## INTERNET OF THINGS (IoT) – EDGE COMPUTING

### FOREWORD

- 1) ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.
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ISO/IEC TR 30164, which is a Technical Report, has been prepared by subcommittee 41: Internet of Things and related technologies, of ISO/IEC joint technical committee 1: Information technology.

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

Enquiry draft	Report on voting
JTC1-SC41/110/DTR	JTC1-SC41/120/RVDTR

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

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

**IMPORTANT – The “colour inside” logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.**

# INTERNET OF THINGS (IoT) – EDGE COMPUTING

## 1 Scope

This document describes the common concepts, terminologies, characteristics, use cases and technologies (including data management, coordination, processing, network functionality, heterogeneous computing, security, hardware/software optimization) of edge computing for IoT systems applications. This document is also meant to assist in the identification of potential areas for standardization in edge computing for IoT.

## 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, *Internet of Things (IoT) – Vocabulary*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 20924 and the following 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

#### **edge**

boundary between pertinent digital and physical entities, delineated by networked sensors and actuators

### 3.2

#### **edge computing**

distributed computing that takes place at or near the edge, where the nearness is defined by the system's requirements

### 3.3

#### **software defined network**

##### **SDN**

network designed, built and managed with separation of the control plane from the forwarding plane and abstraction of the underlying infrastructure, enabling efficient network management and utilization

### 3.4

#### **personally identifiable information**

##### **PII**

information that (a) can be used to establish a link between the information and the natural person to whom such information relates, or (b) is or can be directly or indirectly linked to a natural person