

# INTERNATIONAL STANDARD

Internet of things (IoT) – Vocabulary  
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## CONTENTS

FOREWORD .....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
3.1 General terms .....	4
3.2 Internet of Things specific terms .....	8
Bibliography .....	10

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## INTERNET OF THINGS (IoT) – VOCABULARY

### 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.
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International Standard ISO/IEC 20924 has been prepared by subcommittee 41: Internet of Things and related technologies, of ISO/IEC joint technical committee 1: Information technology.

This second edition cancels and replaces the first edition published in 2018. This edition constitutes a technical revision.

This edition includes the following technical changes with respect to the previous edition:

- a) addition of new terms (safety, wearable device, data acquisition functional system, transport interoperability, etc) which are used in other ISO/IEC IoT related standards;
- b) update of some definitions (data, data store, discovery service, etc.) to align with current usage in other IoT standards.

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

FDIS	Report on voting
JTC1-SC41/195/FDIS	JTC1-SC41/209/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.

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

## INTERNET OF THINGS (IoT) – VOCABULARY

### 1 Scope

This document provides a definition of Internet of Things along with a set of terms and definitions. This document is a terminology foundation for the Internet of Things.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

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 General terms

##### 3.1.1 address

*<endpoint>* value that can be used to identify an *endpoint*, which can designate the originating source or destination of *data* being transmitted

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##### 3.1.2 application

software designed to fulfil a particular purpose

[SOURCE: ISO/IEC 24713-2:2008, 4.1, modified – "program or piece of" has been removed from the beginning of the definition.]

##### 3.1.3 architecture

*<system>* set of fundamental concepts or properties of a system in its environment embodied in its elements, relationships, and in the principles of its design and evolution

[SOURCE: ISO/IEC/IEEE 42010:2011, 3.2, modified – "set of" has been added to the beginning of the definition.]

##### 3.1.4 asset

*entity* that has value and is either owned by or under the custody of an individual, an organization, a government, or other groups