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Replacing GB/T 33745-2017

Internet of things - Terminology

物联网 术语

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 33745-2017 "Internet of Things Terminology". Compared with GB/T 33745-2017, except for structural adjustments and editing In addition to the changes in performance, the main technical changes are as follows.

- a) Added the terms "IoT system, digital entity, virtual entity, execution, control, IoT gateway, edge computing, passive IoT" Internet of Things, Satellite Internet of Things, Trusted Internet of Things, Sensor Network, View, Perspective, Stakeholder, Point of Interest, Identity Registration" and its definition Meaning (see 3.1.2, 3.1.6, 3.1.7, 3.1.10, 3.1.11, 3.1.12, 3.1.13, 3.1.14, 3.1.15, 3.1.16, 3.1.17, 3.2.3, 3.2.4, 3.2.5, 3.2.6, 3.4.3);
- b) Changed the terms "Internet of Things, Entity, Physical Entity, User, Perception, Domain, Internet of Things Reference Architecture, Internet of Things Security Management, Identity" Definitions of the terms "identifier, identifier resolution" (see 3.1.1, 3.1.4, 3.1.5, 3.1.8, 3.1.9, 3.2.1, 3.2.2, 3.3.2, 3.4.2, 3.4.4, 2.1.1, 2.1.2, 2.1.3, 2.1.7, 2.1.8, 2.2.1, 2.2.5, 2.3.2, 2.4.2, 2.4.3 of the 2017 edition);
- c) Deleted the following. "objects, IoT services, sensing devices, basic common standards, industry application standards, IoT conceptual models, reference models" reference architecture, IoT application system reference architecture, IoT communication reference architecture, IoT information reference architecture Architecture, IoT functional reference

model, application system reference architecture interface, communication reference architecture interface, information reference The terms and definitions of "architecture interface" and related terms and definitions of "data" (see 2.1.4, 2.1.5, 2.1.9, 2.1.10, 2.1.11, 2.2.2, 2.2.3, 2.2.4, 2.2.6, 2.2.7, 2.2.8, 2.2.9, 2.2.10, 2.2.11, 2.2.12, 2.5).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2017 as GB/T 33745-2017;
- This is the first revision. IoT Terminology

1 Scope

This document defines common terms and definitions in the field of Internet of Things.

This document is applicable to the understanding of concepts and information exchange in the field of Internet of Things, as well as scientific research, teaching and application.

2 Normative references

This document has no normative references.

3.1.1 Internet of things; IoT

Based on sensing and control devices, physical entities (3.1.5), people, systems and information resources are connected through communication networks to respond to and process objects.

The infrastructure for physical and virtual world information.

3.1.2 IoT system

Systems that provide Internet of Things (3.1.1) functionality.

Note. The IoT system generally includes IoT gateways, sensors, actuators, etc.

[Source. ISO /IEC 20924 2024, 3.2.15, modified]

3.1.3 IoT application

Examples of how the Internet of Things (3.1.1) is used in specific scenarios.

Examples. smart home, smart grid, smart healthcare, etc.

3.1.4 entity

Concrete or abstract things that exist objectively.

Note. Entities are generally divided into physical entities and digital entities.

3.1.5 physical entity

an entity (3.1.4) in the physical world that can be perceived (3.1.9) or acted upon (3.1.10)

[Source. ISO /IEC 20924 2024, 3.1.25, with modifications]

3.1.6 digital entity

Entities that exist in the digital realm (3.1.4).

Note. Digital entities generally exist in various forms, including cloud services, services in data centers, network components or IoT gateways.

[Source. ISO /IEC 20924 2024, 3.1.13]

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