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**Internet of things-Data quality evaluation methods**

物联网 数据质量评价方法

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## Table of Contents

|                                                         |   |
|---------------------------------------------------------|---|
| Preface... III 1 Scope .....                            | 1 |
| 2 Normative references .....                            | 1 |
| 3 Terms and Definitions .....                           | 1 |
| 4 Evaluation framework .....                            | 1 |
| 5 Data Scope Definition .....                           | 2 |
| 6 Data quality check .....                              | 2 |
| 6.1 Evaluation Indicators .....                         | 2 |
| 6.2 Matching Rules .....                                | 3 |
| 6.3 Inspection Implementation .....                     | 3 |
| 7 Weight Analysis .....                                 | 3 |
| 7.1 Overview .....                                      | 3 |
| 7.2 Business Weight Analysis .....                      | 3 |
| 7.3 Data Weight Analysis .....                          | 4 |
| 8 Evaluation result calculation .....                   | 4 |
| 8.1 Overview .....                                      | 4 |
| 8.2 Quality Check Score Calculation .....               | 4 |
| 8.3 Evaluation Index Score Calculation .....            | 4 |
| 8.4 Calculation of comprehensive evaluation score ..... | 4 |
| 9 Evaluation guarantee .....                            | 5 |
| 9.1 Institutional Guarantee .....                       | 5 |
| 9.2 Technical Support .....                             | 5 |
| 9.3 System Assurance .....                              | 5 |
| 9.4 Security Assurance .....                            | 5 |
| References .....                                        | 6 |

## 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 is required.

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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IoT data quality evaluation method

## 1 Scope

This document describes a data quality assessment method for IoT application scenarios.

This document is applicable to guide the establishment and review of data quality evaluation processes throughout the entire life cycle of IoT data.

## 2 Normative references

This document has no normative references.

## 3 Terms and definitions

The following terms and definitions apply to this document.

### **3.1 Data quality**

The degree to which the characteristics of data meet stated and implied requirements when used under specified conditions.

[Source. GB/T 36344-2018, 2.3]

### **3.2 dataset**

A collection of data that has a certain theme, can be identified and can be processed by computer.

[Source. GB/T 36344-2018, 2.6]

### **3.3 data lifecycle**

The process of transforming raw data into actionable knowledge.

### **3.4 Quality evaluation procedure**

Operations used to apply and report quality assessment methods and results.

## **4 Evaluation framework**

In the IoT application scenario, data quality evaluation is based on evaluation assurance and is carried out through data scope definition, and the accuracy, Data quality is checked based on indicators such as consistency, completeness, standardization, timeliness and accessibility, and the weights are analyzed and evaluated.

The implementation process of data quality evaluation mainly includes data scope definition, data quality inspection, weight analysis, and evaluation result calculation.

and evaluation guarantee, as shown in Figure 1.