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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42381.140-2023

**Data quality - Part 140: Master data: Exchange of characteristic
data: Completeness**

数据质量 第140部分：主数据：特征数据交换：完整性

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. This document is Part 140 of GB/T 42381 "Data Quality". GB/T 42381 has released the following parts.

8. Information and data quality. Concepts and measurements;

61. Data Quality Management. Process Reference Model;

62. Data quality management. Organizational process maturity assessment. Application of relevant standards for process assessment;

63. Data quality management. process measurement;

---Part 120: Master data. Characteristic data exchange. Traceability;

---Part 130: Master data. Characteristic data exchange. Accuracy;

---Part 140: Master data. Characteristic data exchange. Integrity. This document is equivalent to ISO 8000-140.2016 "Data Quality Part 140: Master Data. Characteristic Data Exchange. Integrity". This document has made the following minimal editorial changes.

---Deleted Note 2 of Chapter 7 and item information not mentioned in the original text;

---Example 4 of Chapter 7 has been deleted, and the international standards mentioned in the example have been abolished. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed by China Machinery Industry Federation. This document is under the jurisdiction of the National Industrial Automation System and Integration Standardization Technical Committee (SAC/TC159). This document was drafted by: China Institute of Standardization, Zhijiang Laboratory, Mengbiao International Certification Co., Ltd., Anhui Huapu Productivity Promotion Center Xinxin Co., Ltd., Zhejiang Hengdao Technology Co., Ltd., Daxiang Technology (Enshi) Co., Ltd., Guangdong Ruijiang Cloud Computing Co., Ltd., Sichuan Province Shangtou Information Technology Co., Ltd., Hunan Maixi Software Co., Ltd., Shaanxi Huada Technology Co., Ltd., Shenzhen Pengrui Information TECHNOLOGY LIMITED. The main drafters of this document. Yue Gaofeng, Liu Songguo, Li Pengchao, Zhou Ying, Zhang Xiaoquan, Wang Shumin, Wang Hongchao, Gao Liang, Zheng Futao, Wen Na, Hu Rong, Tan Hang, Shi Wei, Tao Yinghai, Wang Yourui, Cui Xiangyang, Zhang Weiqun, Huang Zewei, Wang Zhiqiang, Mao Miao, Yang Qinghai, Hong Yan, Liu Shouhua, Xu Kaicheng, Yin Shurui.

Create, collect, store, maintain, transmit, process and present information and data in order to support business processes in a timely and cost-effective manner, requiring informed decision-making Relevant characteristics of information and data quality are also required to measure, manage and report information and data quality. GB/T 42381 defines the relevant characteristics that determine information and data quality, and provides methods for managing, measuring and improving information and data quality. Methods. These given methods are used to evaluate the quality of information and data. Adapt a given approach to the expectations and needs of the current business case Row clipping is also important. GB/T 42381 includes parts that apply to all data types, as well as parts that apply to specific data types. GB/T 42381 both It can be used independently or in conjunction with a quality management system. GB/T 42381 "Data Quality" is intended to be composed of the following series.

99.Overview of data quality. This series gives the structure of the data quality standard series, which covers It covers basic concepts, data quality management, data quality assessment and other comprehensive contents.

---Part 100~Part.199.Master data quality. Master data describes individuals, organizations, locations, items, services, processes, rules and standard. This family of standards describes the characteristics that define the quality of master data. These features include. semantics, grammatical encoding, consistency of requirements integrity, data provenance, accuracy, completeness and data governance. This series of standards specifies some master data information that is used in the overall to ensure the reliability of data communication between the information sender and the receiver.

1 Scope

GB/T 42381.140-2023 is Part 140 of the Chinese data quality series, and covers the completeness of master data exchanged as characteristic data. Completeness is the quieter failure of the two: an inaccurate value is at least present and can be challenged, whereas a missing characteristic is silently filled in by whatever default the receiving system holds, and the consequence surfaces much later. The standard sets the completeness data model, with its reference types and entities, its UML class diagram, its completeness events and completeness methods, then the data completeness statement, the completeness assertion, the completeness records and the conformance requirements, with a normative annex on document identification and informative annexes giving implementation support information and the code used in the examples. It took effect on 1 April 2024.

This document is an optional additional part of GB/T 42381.120. This document specifies the representation and exchange of characteristic data that constitutes master data Complete information requirements.

Note 1: ISO 8000-110 stipulates that this data is expressed as a characteristic value. When data source information is required, ISO 8000-120 provides additional information for characteristic values. external requirements. This document does not specify a complete model of signature data, nor does it specify an exchange format for signature data with data integrity information. Note

2. The above models and exchange formats are completed in other documents referencing ISO 8000 (such as ISO /T S22745-40). The following content falls within the scope of this document.

---Requirements for obtaining and exchanging data integrity information in the form of data integrity statements and assertions;

---Data conceptual model expressing data integrity information in the form of data integrity statements and assertions. The following contents are outside the scope of this document.

---Data integrity requirements; Note

3. Data integrity requirements depend on many factors, such as the type of data, how the data is used, the industry sector, and the partner's need for data exchange. beg. It is not possible to specify overall requirements for data integrity.

---Exchange format of data integrity information;

---A scheme for registering and parsing organizational identifiers and personal identifiers;

---Data integrity of non-characteristic data expressed as characteristic values;

---Identifier syntax;

---Identifier parsing. Some of the requirements specified in this document may apply to the exchange of non-master data consisting of attribute data expressed as attribute values. constitute. Appendix A specifies the identification of this document in the information system. Appendix B gives information to support implementation.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document. ISO 8000-