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

GB/T 16986-2018

Replacing GB/T 16986-2009

Bar code for commodity -- Application identifier

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 16986-2009 "Commodity Barcode Application Identifier". Main technology compared with GB/T 16986-2009

The changes are as follows.

--- Added AI (16), AI (243), AI (255), AI (394n), AI (416), AI (427), AI (7004), AI (7005),

AI (7006), AI (7007), AI (7008), AI (7009), AI (7010), AI (7020), AI (7021), AI (7022),

AI (7023), AI (8010), AI (8011), AI (8012), AI (8013), AI (8017), AI (8018), AI (8019),

Twenty-six application identifiers for AI (8111) and AI (8200).

--- Removed two application identifiers, AI (8101) and AI (8102).

--- Chapter 5 "Application identifiers and their corresponding data encoding bar code representation" added "two-dimensional bar code".

--- Added the concept of "application identity" in Chapter 6, "Application Identifiers and Application Rules."

--- Revised AI (01), AI (02), AI (20), AI (425) and AI (91-99) five application identifiers.

--- The AI (22) application identifier corresponds to the data encoding meaning modified to "consumer variant application identifier".

--- The AI (390n) application identifier corresponds to the data encoding meaning modified to "a payable total or coupon value of a payment slip".

--- AI (410), AI (411), AI (412), and AI (413) removed the "legal entity" in the 2009 edition.

--- "Table A.2 International Unit System Trade Measurement Unit" and "Table A.3 Non-International System of Unit Trade Measurement Unit" in the 2009 edition

Merged into "Application Identifier for Table D.2 Trade Unit of Measure"; "Table A.4 International System of Unit Logistics Measurement in 2009 Edition"

Units are combined with "Table A.5 Non-International System of Units for Logistics Measurement Units" to "Application IDs for Table D.3 Logistics Units".

--- The order in which the application identifiers are in the standard is changed from the past according to the function classification to the AI code order.

This standard uses the redrafting method to refer to ISO /IEC 15418:2016 "Information technology automatic identification and data acquisition technology GS1 should

Compiled with identifiers and ASCMH10 Data Identifiers and Maintenance, the degree of conformity with ISO /IEC 15418:2016 is not equivalent.

This standard refers to the International Article Numbering Association (GS1) "GS1 General Specification" (2018 version) (GS1GeneralSpecificationsV18)

Chapter 3, "GS1 Application Identifier Definition" (GS1ApplicationIdentifierDefinitions).

This standard is proposed and managed by the National Logistics Information Management Standardization Technical Committee (SAC/TC267).

This standard was drafted. China Article Coding Center, Qingdao Standardization Research Institute, Zhejiang Province Article Coding Center, Ningbo Yibiao Articles

Code Center, Chongqing Quality and Standardization Research Institute, Inner Mongolia Autonomous Region Standardization Institute, Shaanxi Provincial Standardization Research Institute, Hebei Province Standardization Research

Institute, Anhui Quality and Standardization Research Institute, Shanghai Quality and Standardization Research Institute, Shenzhen Standard Technology Research Institute, Qingdao Haier Intelligent Technology

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1 Scope

This standard specifies the meaning of the application identifier in the commodity barcode identification system and the structure and bar code representation of the corresponding data encoding.

This standard applies to the exchange of information in trade and supply chains.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1988-1998 Seven-digit coded character set for information technology information exchange

GB/T 2659 world countries and regions name code

GB/T 12406 code representing currency and funds

GB 12904 commodity barcode retail commodity code and barcode representation

GB/T 12905 barcode terminology

GB/T 15425 product barcode 128 barcode

GB/T 16828 commodity barcode participant position code and bar code representation

GB/T 18127 commodity bar code logistics unit coding and bar code representation

GB/T 20543.1-2011 Financial Services International Bank Account Number (IBAN) Part 1. Structure of IBAN

GB/T 23833 commodity bar code asset code and bar code representation

ISO 3166-2:2007 National and subordinate area name codes Part 2. National subordinate area codes (ISO 3166-2:2007

Codes for the representation of names of countries and their subdivisions-Part 2. Country subdivision

Code)

3 Terms and definitions

The following terms and definitions as defined in GB/T 12905, GB 12904 and GB/T 18127 apply to this document.

3.1

Application identifier application identifier; AI

A character that identifies the meaning and format of the data, consisting of 2 to 4 digits.

4.1 coding structure

The application identifier and its corresponding data encoding together complete the identification of the specific information.

The data encoding corresponding to the application identifier may be a numeric character, an alphabetic character or an alphanumeric character, and the data structure and length depend on the pair.

The application identifier should be.

4.2 representation

The notation is as follows.

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