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Replacing GB/T 23832-2009

**Bar code for commodity - Numbering and symbol marking
of service relationship**

商品条码 服务关系编码与条码表示

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Foreword

This document was drafted in accordance with the provisions of GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces GB/T 23832-2009 "Bar code for commodity - Numbering and symbol marking of service relationship". Compared with GB/T 23832-2009, except for structural adjustment and editorial changes, the main technical changes are as follows:

- CHANGE the content of the Scope, to meet the technical conditions of China (see Chapter 1, Chapter 1 of the 2009 edition);
- CHANGE the definition of the global service relation number (see 3.1; 3.1 of the 2009 edition);
- ADD terms and definitions of "Service relation instance number" (see 3.2);
- ADD the relevant content of "Numbering of service relation instance" (see 4.2);
- ADD the barcode representation of QR code and URL data structure (see Chapter 5);
- ADD the application identifiers AI (8017) and AI (8019), respectively representing the global service relationship provider and service relation instance (see Chapter 5);
- CHANGE the size and grade requirements (see 6.1; 6.1 of the 2009 edition);
- ADD the detection and quality evaluation of QR code (see 6.2).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

This document was proposed by AND shall be under the jurisdiction of the National Logistics Information Management Standardization Technical Committee (SAC/TC 267).

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Bar code for commodity - Numbering and symbol marking of service relationship

1 Scope

This document specifies the technical requirements for numbering, barcode representation, barcode symbols of global service relation numbers and service relation instance numbers.

This document is applicable to the identification, automatic identification, data collection of service-related parties and service relation instances.

2 Normative references

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

GB 12904 Bar code for commodity - Retail commodity numbering and bar code marking

GB/T 12905 Bar code terminology

GB/T 15425 Bar code for commodity - 128 bar code

GB/T 16986 Bar code for commodity - Application identifier

GB/T 18284 Quick response matrix code

GB/T 18348 Bar code for commodity - Bar code symbol print quality verification

GB/T 21049 Han Xin code

GB/T 23704 Two-dimensional bar code symbol print quality test

GB/T 33993 Two dimensional code for commodity

GB/T 37056-2018 Article numbering terminology

GB/T 40204-2021 General rules of two dimensional barcodes for traceability

GB/T 41208-2021 Data matrix code

3 Terms and definitions

The following terms and definitions, which are defined in GB/T 12905 and GB/T 37056-2018, apply to this document.

3.1

Global service relation number; GSRN

In the commodity barcode system, the code which is used to uniquely identify the service-related parties, in the service relationship on a global scale.

[Source: GB/T 37056-2018, 3.12, modified]

3.2

Service relation instance number; SRIN

In the commodity bar code system, the code, which is used to identify specific service items, in a certain service relation.

4 Numbering

4.1 Numbering of global service relation

4.1.1 Code structure

The global service relation number is composed of three parts: manufacturer identification code, service reference code, verification code. It is an 18-digit code. The structure is as shown in Table 1. Among them, the manufacturer identification code is composed of 7 ~ 10 digits; the service reference code is composed of 10 ~ 7 digits; the check code is 1 digit.

4.1.2 Compilation rules

4.1.2.1 Manufacturer identification code

The rules for compiling the manufacturer identification code shall comply with the provisions of GB 12904.

4.1.2.2 Service reference code

The service reference code is assigned by the service provider organization which has obtained the vendor identification code; it is guaranteed to be unique.

4.1.2.3 Check code

The check code is calculated, based on the first 17 digits of the global service relation number; the calculation method shall comply with the provisions of Appendix A.

4.2 Numbering of service relation instance

4.2.1 Code structure

The service relation instance number (SRIN) is composed of numeric characters, with a variable length, up to 10 digits; the structure is as shown in Table 2.

4.2.2 Numbering rules

The service relation instance number is assigned by the service provider which has obtained the vendor identification code AND is guaranteed to be unique; it shall be used together with the global service relation number.

5 Barcode representation

When using a barcode to indicate a service relationship, it shall be used together with the corresponding application identifier, according to the different parties involved in the service. The application identifier shall comply with the provisions of GB/T 16986. The one-dimensional barcode adopts GS1-128 barcode, which shall comply with the provisions of GB/T 15425. The two-dimensional code adopts the two-dimensional code with GS1 mode, such as QR code, data matrix code, Han Xin code, respectively in accordance with the requirements of GB/T 18284, GB/T 41208 -2021, GB/T 21049. URL data structure shall comply with the provisions of GB/T 33993 or GB/T 40204-2021. The unit data strings and analytical query keywords shall comply with the requirements of Appendix A of GB/T 40204-2021. See Table 3 for the application identification of the global service relation. See Table 4 for the application identification of the service relation instance. See Appendix B for an example of barcode

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