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Consumer Product Traceability - Specification for Data Interchange Application for Traceability System

消费品追溯 追溯系统数据交换应用规范

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Consumer Product Traceability - Specification for Data Interchange Application for Traceability System

1 Scope

This Standard specifies the data structure models, formats and interfaces of data interchange of the consumer product traceability system.

This Standard is applicable to data interchange, sharing and application of the consumer product traceability system.

This Standard is not applicable to products such as: food, medicines, cosmetics, tobacco, special equipment, aircrafts, ships and military products, etc.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 35248-2017 Consumer Product Safety - Guidelines for Suppliers

GB/T 39105 Consumer Product Traceability - Data Element Directory for Traceability System

3 Terms and Definitions

What is defined in GB/T 35248-2017, and the following terms and definitions are applicable to this document.

3.1 Data Interchange

Data interchange refers to a process, in which, data is provided among various entities.

[GB/T 36107-2018, Definition 3.1]

3.2 Data Structure

Data structure refers to the internal composition of the data output by the data interface. It includes several different data elements.

NOTE: GB/T 19581-2004, Definition 3.8 is modified.

4 Overview

4.1 The consumer product traceability data interchange mainly includes data interchange among the consumer product design link traceability system, the consumer product manufacturing link traceability system, the consumer product market link traceability system and the supervision platform, etc.

4.2 The logical relationship of consumer product traceability data interchange:

- a) The consumer product design link traceability system provides design link traceability information to the consumer product manufacturing link traceability system and the supervision platform. An example of the interchange data structure model is shown in 5.1;
- b) The consumer product manufacturing link traceability system provides manufacturing link traceability information to the consumer product market link traceability system and the supervision platform. An example of the interchange data structure model is shown in 5.2;
- c) The consumer product market link traceability system provides market link traceability information to the supervision platform. An example of the interchange data structure model is shown in 5.3;
- d) The consumer product manufacturing link traceability system provides feedback information to the consumer product design link traceability system; the consumer product market link traceability system provides feedback information to the consumer product manufacturing link traceability system; the supervision platform provides feedback information to the consumer product design, manufacturing and market link traceability systems. The feedback information includes feedback business information and feedback prompt information. An example of the interchange data structure model is shown in 5.4.

The logical relationship of the consumer product traceability data interchange is shown in Figure 1.

Appendix A

(informative)

Examples of Data Interchange Interface Modes

A.1 Service Interface Mode

A.1.1 Overview

The service interface mode is often used in real-time data transmission.

A.1.2 Technical agreement

Before the interchange, both parties of the data interchange make an agreement on the technical details, such as:

- Character encoding set: UTF-8;
- Digest algorithm: SHA-256;
- Picture encoding format: BASE64 encoding.

A.1.3 Example of interface

An example of interface is as follows:

- a) Interface address: <http://serverurl/design/search>.
- b) Name of interface: design traceability information query interface.
- c) Interface description: in accordance with the request, call and return the relevant traceability information of the product design link.
- d) Interface mode: webservice.
- e) Request format:
 - 1) method: post.
 - 2) Content-Type: application/json.
 - 3) Request parameters are shown in Table A.1.

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