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

GB/T 42933-2023

Intermodal loading unit identification

多式联运运载单元标识

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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. 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 and coordinated by the National Comprehensive Transportation Standardization Technical Committee (SAC/TC571). This document was drafted by: Planning and Research Institute of the Ministry of Transport, Scientific Research Institute of the Ministry of Transport, China Merchants Group Co., Ltd., SF Express Intermodal Transport Co., Ltd., CIMC Vehicles (Group) Co., Ltd., Guoneng Railway Equipment Co., Ltd., Zhonglu Transportation (Beijing) Transportation Consulting Ltd. The main drafters of this document. Gan Jiahua, Li Tao, Wei Yongcun, Wang Mingwen, Wang Jian, Liu Jiakun, Cheng Qianqian, Tan Xiaoping, Zhang Chi, Chen Boli, Li Yunhan, Lin Jinhong, Li Xumao, Du Yandong, Wei Xiaojing, Song Yanwen, Shi Xing, He Feifei, Jiao Wenwen. Intermodal transport unit identification

1 Scope

China's national standard for the identification of intermodal loading units. A loading unit is the box the goods travel in - a container, a swap body, a semi-trailer - and its identification is what the whole intermodal system tracks. The requirement is not merely a serial number: the marking has to be readable by a person at a distance and in poor light, by a camera at a terminal gate as a vehicle passes at speed, and increasingly by radio, and it has to encode enough to identify the unit uniquely worldwide and to say what it is - its type, its dimensions and its ratings. That is why the international container marking system encodes the owner, the equipment category, the serial and a check digit, with a separate size and type code, and why anything used domestically alongside it has to fit the same scheme rather than compete with it.

This document specifies the identification and marking requirements for intermodal

transport units. This document applies to the identification of intermodal transport units.

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.

GB/T 42184 Terminology for multimodal transport of goods

3 Terms and definitions

The terms and definitions defined in GB/T 42184 and the following apply to this document.

3.1 Storage and transportation equipment that can be easily converted between different modes of transportation and conforms to universal standards.

Note. Including but not limited to containers, exchange boxes, semi-trailers, etc., excluding aviation containers. [Source: GB/T 42184-2022, 3.4, with modifications]

4.1 Composition

4.1.1 The identification of the multimodal transport unit (hereinafter referred to as the transport unit) consists of the following parts.

b) Equipment identification code;

c) Serial number;

4.1.2 The identification codes should be used at the same time, arranged in the order of owner code, equipment identification code, serial number and verification code, see Figure 1. Figure