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

GB/T 31455.5-2025

Replacing GB/T 31455.5-2015

**Intelligent system of bus rapid transit (BRT) - Part 5: Interface
specifications between the dispatch centre and on-board
intelligent terminals**

快速公交（BRT）智能系统 第5部分：调度中心与车载智能终端通信数据接口规范

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	1
5.Semantics and Syntax	2
6 Data Frames	2
7 Message Frame	11
8 Sessions	36
9.Test Method	49
50 Appendix A (Normative) Data Elements of the Interface between the Dispatch Center and the Vehicle-Mounted Intelligent Terminal.....	51

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 5 of GB/T 31455 "Intelligent Systems for Bus Rapid Transit (BRT)". GB/T 31455 has the following publications. part.

- 1.General Technical Requirements;
- 2.Technical Requirements for the Dispatch Center System;
- 3.Technical Requirements for Vehicle-Mounted Intelligent Terminals and Peripheral Equipment;
- 4.Technical Requirements for Station Platform Control Systems and Peripheral Equipment;
- 5.Communication Data Interface Specification between Dispatch Center and Vehicle-Mounted Intelligent Terminal;
- 6.Communication Data Interface Specification between Dispatch Center and Station Platform Control System;
- 7.Specification for Communication Data Interface between Bus Priority Equipment and Traffic Signal Controllers This document replaces GB/T 31455.5-2015 "Intelligent Systems for Bus Rapid Transit (BRT) - Part

5. Dispatch Center and Onboard Information Terminals". Compared with GB/T 31455.5-2015, the "Terminal Communication Data Interface Specification" has undergone major technical changes, except for structural adjustments and editorial modifications. as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2015 edition);
- b) Terms and definitions have been changed (see Chapter 3, Chapter 3 of the.2015 edition);
- c) Abbreviations have been changed (see Chapter 4, Chapter 4 in the.2015 edition);
- d) Modified "Satellite Positioning Information", "Vehicle Identification", "Employee Identification", "Railway Identification", "Station Identification", "Communication Parameters", and "Version". "Identifier", "Predefined SMS", "Contact Person", "Violation Information", "Server Identifier", "Text Information", "Passenger Count Information", "Departure Schedule" The "Team" data frame (see 6.1~6.14,.2015 version 6.1~6.14) has added "vehicle distance information", "display device information", and "advertising information". "Information", "Device Identifier", "Device Parameter Identifier", "Device Status Reporting Identifier", "Arrival Prediction Data Identifier", "SIM Card Information Identifier" "Scheduling Information Identifier" data frame (see 6.15~6.23);

1 Scope

GB/T 31455.5-2025 is the Chinese national standard covering the messages between a BRT control centre and its buses - the position and status reports going up, the schedule adjustments, text and voice instructions going down, and the acknowledgement and recovery when a bus goes out of coverage. At 39,000 words it is the largest part of the series, because an interface specification is nothing but detail. It replaces GB/T 31455.5-2015. It was issued on 31 December 2025 and has been in force since 1 July 2026, replacing GB/T 31455.5-2015. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the semantics and syntax for data communication between the dispatch center and onboard intelligent terminals in a Bus Rapid Transit (BRT) intelligent system. Frames, message frames, sessions, test methods, and verification rules. This document applies to the construction and management of data communication between the dispatch center and onboard intelligent terminals in a Bus Rapid Transit (BRT) intelligent system.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 31455.1 Intelligent Bus Rapid Transit (BRT) Systems - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 31455.1, GB/T 31455.2-2025, GB/T 32852.1 and GB/T 32852.2 apply to... This document.

4. Abbreviations The following abbreviations apply to this document. APN. Access Point Name BRT. Bus Rapid Transit EVDO. A 3G network standard based on CDMA (Evolution Data Only) IC. Integrated Circuit