

ICS 43.040
CCS T 35



中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 32960.3-2025
Replaces GB/T 32960.3-2016

**Technical Specifications for Remote Service and
Management System for Electric Vehicles—Part 3:
Communication Protocol and Data Format**
电动汽车远程服务与管理系统技术规范
第 3 部分：通信协议及数据格式

(English Translation)

Issued on 2025-04-25

Implemented on 2025-11-01

Jointly Issued by
State Administration for Market Regulation of the People's Republic of China &
Standardization Administration of the People's Republic of China

CONTENTS

Foreword	II
Introduction	IV
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 General Requirements	2
5 Communication Connection	2
5.1 Connection Establishment	2
5.2 Information Transmission	3
5.3 Disconnection	4
5.4 Supplementation Mechanism	4
6 Structure and Definition of Data Packet	4
6.1 Data Specification	4
6.2 Data packet Structure	4
6.3 Command Unit	5
6.4 Time	6
7 Format and Definition of Data Unit	6
7.1 Vehicle Login	6
7.2 Real-time information reporting	7
7.3 Vehicle Logout	17
7.4 Platform Login	18
7.5 Platform Logout	18
7.6 Data Unit Encryption Key Exchange	18
Annex A (Normative) Definitions of Part Fields	19
Annex B (Informative) Onboard Terminal to Platform Communication Protocol	22

Technical Specifications for Remote Service and Management System for Electric Vehicles—Part 3: Communication Protocol and Data Format

1 SCOPE

This document specifies the protocol structure, communication connection, data packet structure and definition, and data unit format and definition, with respect to the remote service and management system (RSMS) for electric vehicles.

This document is applicable to connection and communication between platforms and the onboard terminal to platform in the RSMS for electric vehicles.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 1988	Information technology - 7-bit Coded character set for information interchange
GB 16735	Road vehicles - Vehicle identification number (VIN)
GB 18030	Information technology - Chinese coded character set
GB/T 19596	Terminology of electric vehicles
GB/T 24548	Fuel cell electric vehicles – Terminology
GB/T 28816	Fuel cell - Terminology
GB/T 32960.1	Technical specifications for remote service and management system for electric vehicles - Part 1: General principle
GB/T 34014	Coding regulation for automotive traction battery
GB 38031	Electric vehicles traction battery safety requirements
GB/T 40855-2021	Technical requirements and test methods for cybersecurity of remote service and management system for electric vehicles

3 TERMS AND DEFINITIONS

For the purposes of this document, the terms and definitions given in GB/T 19596, GB/T 24548, GB/T 28816 and GB/T 32960.1, as well as the following apply.

- 3.1 client platform
 - a remote service and management platform serving as the data sender during data exchange
- 3.2 server platform
 - a remote service and management platform serving as the data receiver during data exchange
- 3.3 register
 - process in which the client platform provides the platform and vehicle static information to the server platform for authentication of both platform and vehicle
- 3.4 upstream
 - direction of data transmission from the client to the server
- 3.5 downstream
 - direction of data transmission from the server to the client
- 3.6 vehicle login
 - authentication made before the client reports the vehicle state information to the server

www.chinaautoregs.com



ChinaAutoRegs

中国汽车标准译文库

The following pages are left blank intentionally.

-
- ◆ 现成译文，到款即发。
 - ◆ 下单前可任取样页验证译文质量。
 - ◆ 免费提供正规普通增值税数电发票。
 - ◆ 请联系**手机/微信: 133 0649 6964 Email: standardtrans@foxmail.com** 获取完整译文。
 - ◆ 本英文译本为纯人工专业精翻版本，保证语法术语准确率和专业度！
 - ◆ 专业源于专注|ChinaAutoRegs 始终专注于汽车标准翻译领域！
 - ◆ 「中国汽车标准译文库」已收录上千个现行汽车国家标准和行业标准的英文版译本，涵盖传统燃油车、新能源汽车和摩托车标准化体系！独家打造千万级汽车专业术语库和记忆库。

-
- ✚ *The English Translation of this document is readily available, and delivered immediately upon payment.*
 - ✚ *Sample pages may be requested to your preference before placing order.*
 - ✚ *Please contact standardtrans@foxmail.com for the complete PDF version in English.*
 - ✚ *Our well-established database has included almost all Chinese automotive standards in effect, providing one-stop, up-to-date, efficient and professional solution.*