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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)

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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



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