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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 26765-2023

Specifications for motor vehicle safety inspection business information system and networking

机动车安全技术检验业务信息系统及联网规范

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Foreword

This document was issued on 17 March 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 October 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

1 Scope

GB/T 26765-2023 specifies the information system behind periodic vehicle safety inspection. The inspection itself is a technical matter; whether it means anything is an information systems matter, because the value of a roadworthiness certificate rests entirely on it having been earned. The known failure modes are all administrative: a vehicle presented for one test and certified for another, results entered by hand and adjusted afterwards, a station issuing certificates for vehicles that never arrived. A system that binds each measurement to the vehicle identity and the equipment that produced it, timestamps it, and transmits it to the traffic authority as it happens is what closes those gaps - which is why networking is in the title alongside the system. This document specifies the system architecture, the basic operating requirements, the functional requirements, the data requirements and the verification requirements for motor vehicle safety technical inspection business systems. Under CCS R80, it is written for inspection station operators and their software suppliers, for the equipment manufacturers whose devices feed it, and for the traffic management authorities who supervise the stations and rely on their data.

This document specifies the system architecture, basic operating requirements, functional requirements, data requirements, verification requirements of the motor vehicle safety technical inspection business information system.

This document is applicable to the development, construction, application of the motor vehicle safety technical inspection business information system, as well as the networking construction between motor vehicle safety technical inspection agency and administrative departments.

2 Normative references

The contents of the following documents constitute the essential terms of this document through normative references in the text. Among them, for dated references, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB 1589 Limits of dimensions, axle load and masses for motor vehicles, trailers and combination vehicles

GB 7258 Technical specifications for safety of power-driven vehicles operating on roads

GB 38900-2020 Items and methods for safety technology inspection of motor vehicles

GA/T 543.1 The data elements for public security (1)

GA/T 543.3 The data elements for public security (3)

GA/T 543.5 The data elements for public security (5)

GA/T 543.6 The data elements for public security (6)

GA/T 543.10 The data elements for public security (10)

IEEE 802.3 IEEE Standard for Ethernet

IEEE 802.11 IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11.Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications

3 Terms and definitions

The terms and definitions defined in GB 7258 and GB 38900-2020, as well as the following terms and definitions, apply to this document.

3.1

Station

A section of the inspection channel that can accommodate an inspected motor vehicle for one or more inspection items.

3.2

Inspection business information system

An information system that manages the entire process of motor vehicle safety technical inspection business, consisting of six modules. basic information registration, inspection business acceptance, inspection process control, inspection process monitoring, inspection business handling, system management.

3.2.1

Basic information registration module

A module with the functions of inputting, reporting, downloading basic information of motor vehicle safety technical inspection agency.

3.2.2

Inspection business acceptance module

A module with the functions of logging in inspection business information and online query.

3.2.3

Inspection process control module

A module with the functions of controlling inspection equipment for instrument and equipment inspection, manual inspection, calibration of inspection equipment.

3.2.4

Inspection process monitoring module

A module with the functions of video monitoring and image monitoring of motor

vehicle safety technical inspection process.

3.2.5

Inspection business processing module

A module with the functions of collecting images and videos of motor vehicle manual inspections, processing inspection results, handling abnormal situations.

3.2.6

System management module

A module with the functions of user management, parameter management, log recording, internal query, statistical analysis of the inspection business information system.

3.3

General failure

A failure that requires restarting the software/hardware of the inspection business information system and can resume normal operation within 30 minutes.

3.4

Major failure

Any software/hardware failure that causes the motor vehicle safety technical inspection to stop for more than 30 minutes.

3.5

Intelligent recognition of inspection images

Process, analyze, understand the images of motor vehicle safety technical inspection; apply deep learning and other algorithms to identify manual inspection items, inspection materials, photos, videos of the inspection process, etc.

4 Inspection business information system architecture

The inspection business information system consists of basic information registration, inspection business acceptance, inspection process control, inspection business handling, inspection process monitoring, system management modules.

The inspection business information system shall realize the exchange of information,