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Smart city - Guidelines for application of sensing terminals

智慧城市 感知终端应用指南

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Foreword

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The construction of new smart cities requires the support of massive data, and the application of big data has become a basic feature of new smart cities: end of perception The terminal is responsible for multiple functions such as data collection, preliminary processing, encryption, and transmission: It is the basic unit of the new smart city informatization construction: Management and social governance provide a solid foundation for data collection: Currently, the categories and technical specifications of sensing terminals are complex, and there is a mismatch between sensing terminal applications and smart city-related scenarios: Problems of disproportionation and incoordination, and unsatisfactory terminal use efficiency: In view of the above problems, this document follows GB/T 38637:1-2020 "Internet of Things Sensing Control Device Access Part 1: General Guidelines" Request", GB/T 38637:2-2020 "Internet of Things Sensing Control Device Access Part 2: Data Management Requirements", GB/T 38624:1-2020 On the basis of "Internet of Things Gateway Part 1: Gateway Technical Requirements for Sensing Device Access" and other relevant standards and technical requirements, fully consider the intelligent According to the application requirements of smart city-related industries for sensing terminals, strengthen the application guidance of smart city sensing terminals, and provide a solution for sensing terminals in smart city scenarios: Provide basis for deployment and management: Smart City Sensing Terminal Application Guide

1 Scope

GB/T 42760-2023 gives guidance on applying sensing terminals in smart cities. A city deploys cameras, environmental sensors, traffic detectors, smart poles and meters in the hundreds of thousands, each procured by a different department for a single purpose, mounted on whatever was available and connected however the supplier preferred - and then discovers that it owns an estate it cannot maintain, secure or reuse. The standard addresses the whole life of the device rather than its specification. It classifies the application scenarios by city function and by urban space, sets the adaptation of the terminal to the scenario with the common terminal classes and their functional and performance parameters, and covers the management of the terminals - installation, commissioning, operation and maintenance - and their security, physical, environmental, network and communication. It took effect on 1 December 2023.

This document describes the classification of typical application scenarios of smart city

sensing terminals, and provides Guarantee and other guidance: This document is applicable to guide the design, installation, commissioning, operation and maintenance of smart city perception terminal applications:

2 Normative references

This document has no normative references:

3 Terms and Definitions

The following terms and definitions apply to this document: 3:

1 Sensing terminals sensingterminals A device with the function of collecting information or performing operations on objects or the environment and communicating with the Internet: [Source: GB/T 36951-2018, 3:1:2, modified]

4 Overview

The application of sensing terminals in smart cities generally requires comprehensive consideration of sensing terminal application requirements, sensing terminal application adaptation, sensing terminal management, Four aspects of security:

a) Perceive terminal application requirements: Combining urban functions and urban space grading and stratification, clearly perceive terminal application scenarios and regions, and provide a basis for perception Provide basis for terminal selection and management:

b) Sensing terminal application adaptation: Comparing the application scenarios and areas of the sensing terminal, select the matching sensing terminal to solve the problem of sensing terminal The application does not match and coordinate with the smart city scene and region, and the terminal use effect is not ideal:

c) Aware terminal management: Consider factors such as application scenarios, application areas, and terminal selection and adaptation to clearly perceive terminal installation, commissioning, and operation: Dimensional management and other content to achieve effective management of sensing terminals:

d) Safety and security: Perceived terminal security is put forward from the aspects of risk assessment, physical and environmental security, network and communication security, data security, etc: Considerations related to full coverage:

5 Classification of Sensing Terminal Application Scenarios

1 Classification framework Sensing terminal is the basic unit of smart city informatization construction, and it is advisable to clarify the application of sensing terminal according to the construction and development needs of smart city: Scenarios provide basis for terminal

selection and management: This document classifies the application scenarios of smart city sensing terminals from the two dimensions of urban function and urban space, as shown in Figure 1:

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