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Urban intelligent hub - Overall architecture and requirements

智慧城市 城市智能中枢 参考架构

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
5 Overall Architecture of Urban Smart Hub	1
6 Information Infrastructure	2
6.1 IoT Perception Infrastructure	2
6.2 Network communication infrastructure	3
6.3 Cloud Infrastructure	3
7 Data Resources	3
8 Capability Support	4
8.1 Computing Power Support	4
8.2 Data Support	4
8.3 Artificial Intelligence Support	8
8.4 Business Support	9
8.5 Human-Computer Interaction	11
9.1 Overview	12
9.2 Computing power open	12
9.3 Open Data Resources	13
9.4 AI Capability Openness	13
9.5 Business Capability Openness	13
10.1 Overview	14
10.4 Industrial Economy	14
10.5 Ecological Livability	14
11 Security	14
12 Operation and Maintenance	15
12.1 Operation and Maintenance	15
18 References	19

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for

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1 Scope

China's national standard for the overall architecture of the urban intelligent hub. The hub is the layer a Chinese city now builds between its departments and its applications: one place where the computing, the data and the shared capabilities sit, so that traffic, emergency

response, utilities and public services draw on a common foundation instead of each building its own. The reason for standardising it is the history of the alternative. A decade of smart city projects produced departmental systems that could not exchange data, duplicated the same sensing three times, and left the city with dozens of contracts and no leverage. A defined architecture is what makes the hub procurable and extensible by different suppliers over time. The standard specifies requirements for information infrastructure, data resources, capability support, capability openness, smart applications, security, and operation and maintenance, and guides the planning, design, construction and operation of such projects.

This document provides the overall architecture of the urban intelligent hub and specifies the information infrastructure, data resources, capability support, and energy management of the urban intelligent hub. requirements in terms of openness, smart applications, security, and operation and maintenance. This document is applicable to guiding the planning, design, construction, and operation and maintenance of urban smart hubs and related projects.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 22239-2019 Information security technology - Basic requirements for cybersecurity level protection

GB/T 34678-2017 Smart City Technology Reference Model

GB/T 35273-2020 Information security technology Personal information security specification

GB/T 37971-2019 Information security technology smart city security system framework

GB/T 38664.2-2020 Information technology big data government data open sharing Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 City Intelligent Center Comprehensively apply the new generation of information technology, integrate urban multi-source data resources, and integrate state perception, modeling analysis, urban operation management, and emergency response. Through human-machine interaction and collaboration, it provides comprehensive situation awareness, intelligent trend analysis, collaborative and efficient disposal, agile response,

and peace of mind. A complex system that provides intelligent services such as emergency rapid switching, improves the level of precise and detailed urban governance, and supports the digital transformation of cities.

4 Abbreviations

The following abbreviations apply to this document.

5 Overall Architecture of Urban Intelligent Hub

The city's intelligent hub is based on technology implementation and is divided into five levels from bottom to top. horizontal mutual support, vertical security and operation and maintenance system