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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Urban operation, management and service platforms - Part 8:
Information collection**

城市运行管理服务平台 第8部分：信息采集

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Table of Contents

5	General Requirements
6	City Operation Information Collection
6.1	Organization Method
6.2	Personnel Requirements
6.3	Data Collection Requirements
6.4	Data Acquisition Process
6.4.1	Manual Inspection Information Collection Process
6.5	Data Acquisition Equipment
6.6	Management Requirements
6.6.1	Management Content
6.6.2	Supervision and Inspection
7	Urban Management Information Collection
7.1	Organization Method
7.2	Personnel Requirements
7.3	Data Collection Requirements
7.4	Data Acquisition Process
7.4.1	Manual Inspection Information Collection Process
7.4.2	Information Acquisition Process of Intelligent Video Acquisition Equipment
7.5	Data Acquisition Equipment
7.6	Management Requirements
7.6.1	Management Content
7.6.2	Supervision and Inspection
8	Information Collection Published on 2026-05-

Foreword

GB/T 47678.8-2026 | Urban operation, management and services platform - Part 8:
Information collection

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Part

5 General Requirements

5.1 Information collection should include the collection of urban operation information and urban management information.

5.2 The coverage area for information collection should be consistent with the coverage area of the urban operation management service platform and comply with the provisions of GB/T 47678.3.

5.3 The types and identification codes for urban operation information collection shall comply with the provisions of GB/T 47678.6. The types and identification codes for urban management information collection... The identification code and the code should comply with the provisions of GB/T 47678.5.

5.4 The data content of the information collection shall comply with the provisions of GB/T 47678.7.

5.5 Information collection should preferably combine manual patrol information collection, IoT sensing device information collection, and intelligent video device information collection. Way.

5.6 Each city may expand the scope and types of information collection based on its local conditions.

6.1 Organization Method

6.1.1 The city operation information collection team may be established by means of self-organization, authorization or entrustment.

6.1.2 The authority, responsibilities, and obligations of the urban operation information collection team should be clearly defined.

6.2 Personnel Requirements

6.2.1 Requirements for urban operation information collectors should be established.

6.2.2 Urban operation information collectors should receive training in relevant knowledge and testing skills.

6.3 Data Collection Requirements

6.3.1 Urban operation information collection should include methods such as manual inspection information collection and IoT sensing device information collection.

6.3.2 Urban operation information collection should be comprehensive, accurate, and timely.

6.3.3 Information on municipal facilities, buildings, transportation facilities, and densely populated areas should be collected, including gas, water supply, drainage, heating, and bridges. Information on urban operations, including beams, tunnels, integrated utility

tunnels, sanitation facilities, buildings, roads, parks, and squares.

6.3.4 Manual inspections should include daily inspections, periodic testing, and comprehensive checks, and should comply with the following provisions.

- a) The ownership/maintenance unit should conduct daily inspections and periodic testing, clearly defining the content, frequency, technical specifications, and hidden dangers of the inspections and testing. Requirements for treatment, etc.;
- b) Relevant departments should formulate comprehensive inspection plans and organize their implementation regularly;
- c) Manual patrols can be conducted jointly by districts/counties and subdistricts;
- d) Upon discovering potential risks, the incident information should be immediately uploaded to the platform, and the relevant ownership/maintenance unit should be notified.

6.3.5 IoT sensing should clearly define the monitoring objects, indicators, equipment requirements, and alarm thresholds, and comply with the following regulations.

- a) Monitor the objects according to the monitoring indicators, monitoring equipment requirements, data collection frequency, and upload frequency specified in Appendix A, and collect data. For applications where frequency and upload frequency are not specified, real-time monitoring is recommended.
- b) When the monitored data exceeds the threshold, it is collected and uploaded in real time, and an alarm message is generated.

6.3.6 The collection of urban operation information for gas facilities shall comply with the following regulations.

- a) Comply with the provisions of GB/T 51474 and CJJ/T 215;
- b) Monitor and manage gas pipelines, gas plants, key construction areas, underground spaces adjacent to gas pipeline networks, and gas-using catering establishments. examine;

6.4.1 Manual Inspection Information Collection Process

6.4.1.1 The reporting process for patrol operation supervision information should be carried out according to Figure 1.

6.4.1.2 The reporting process for maintenance operation supervision information should be carried out according to Figure 2.

6.4.1.3 The regular inspection and supervision process should be carried out according to Figure 3.

6.4.1.4 The comprehensive inspection and management process should be implemented according to Figure 4.

6.4.2 Information Collection Process of IoT Sensing Devices The process of collecting information through IoT sensing devices should be carried out as shown in Figure 5.

6.5 Data Acquisition Equipment

6.5.1 The equipment quality requirements shall comply with the provisions of Appendix A.

6.5.2 It shall meet the requirements for environmental adaptability, and its performance indicators shall comply with the provisions of the current national testing and inspection standards, and shall be calibrated regularly.

6.5.3 Equipment access shall comply with the provisions of GB/T 38637.1 and GB/T 38637.2.

6.5.4 It should have data acquisition, storage, and transmission functions, and the acquisition frequency and upload frequency should preferably be set remotely, while ensuring data security. And confidentiality. If communication is interrupted, historical data should be transmitted again after communication is restored.

6.5.5 It should have a data alarm function, with configurable alarm thresholds. When the threshold is exceeded, it should automatically generate and upload alarm information, and preferably, it should respond according to... Increase the frequency of data uploads based on the alarm level.

6.5.6 It should have an automatic clock synchronization function, and the time deviation between the equipment and the city's operating system should be $\leq 5s$.

6.5.7 It should have functions such as fault diagnosis and alarm, power failure protection, and automatic recovery upon power restoration. Water quality monitoring equipment should have water outage protection and... Automatic recovery function.

6.6.1 Management Content

6.6.1.1 All entities owning various facilities shall establish inspection/line patrol/monitoring systems and leak detection systems, which shall comply with the following provisions.

- a) The gas facility owner shall formulate a pipeline inspection system in accordance with GB/T 51474 and a leak detection system in accordance with CJJ/T 215. Inspection system;
- b) The water supply facility owner shall formulate a line patrol system in accordance with the provisions of CJJ207;
- c) The drainage facility ownership unit shall formulate a patrol system in accordance with the provisions of GB/T 51187 and GB 55027;
- d) The heating facility owner shall formulate a line patrol system in accordance with the provisions of CJJ88 and a leak inspection system in accordance with the provisions of CJJ/T 254. system;