ICS 35.020
CCS L 70

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 45935-2025

Emergency management - General technical requirements for application of BeiDou navigation satellite system

应急管理 北斗卫星导航系统应用总体技术要求

Issued on: June 30, 2025 **Implemented on: June 30, 2025**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the Ministry of Emergency Management of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee for Standardization of Emergency Management and Disaster Reduction and Relief (SAC/TC307).

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Introduction

The Outline of the 14th Five-Year Plan for National Economic and Social Development of the People's Republic of China and the Long-Term Objectives for 2035 emphasizes deepening the BeiDou The system is promoted and applied to promote the high-quality development of the BeiDou industry. The "14th Five-Year Plan for the Development of the BeiDou Navigation Industry" clearly proposes to support the BeiDou The application engineering construction of national emergency communications and emergency management industries. In 2021, the State Council issued the "14th Five-Year Plan for National Emergency System Planning".

In July 2022, the National Disaster Reduction Committee issued the "14th Five-Year Plan" The National Comprehensive Disaster Prevention and Mitigation Plan requires the realization of real-time two-way communication and data transmission under all-weather, all-time and complex terrain conditions to provide emergency Provides specific guidance for managing BeiDou satellite navigation system applications.

The emergency management field has a strong demand for time and space services and a high requirement for communication reliability.

Provide stable and reliable positioning, navigation, short message communication and timing services, and provide services for supervision and management, monitoring and early warning, command and rescue, and decision-making in the field of emergency

management.

It provides important technical support for policy support and government administration.

In order to standardize and guide the application and development of BeiDou satellite navigation system in the field of emergency management, the BeiDou satellite navigation system service resources In the field of emergency management, efficient utilization and reasonable allocation require the formulation of relevant standards.

The general standards set by the BeiDou Satellite Navigation System are intended to provide a basis for the design, construction, and implementation of related products and services in the application of the BeiDou Satellite Navigation System in the field of emergency management.

Provide a basis for management and use.

Emergency Management Beidou Satellite Navigation System Application Overview Technical requirements

1 Scope

This document provides an application framework for using BeiDou satellite navigation system services in the field of emergency management, and specifies the BeiDou application terminal services for emergency management.

The overall technical requirements for terminals, Beidou emergency comprehensive service system, emergency management big data resource pool, inspection and testing, and safety protection.

This document applies to the research and development, manufacturing, design, Construction, management and use.

2 Normative references

GB/T 4208

GB/T 22239-2019

GB/T 35273

GB/T 39267

GB/T 45936

3 Terms and Definitions

The terms and definitions defined in GB/T 39267 and the following apply to this document.

3.1 cymanagement

A general term for various equipment and facilities in the field of emergency management that directly or indirectly use the Beidou satellite navigation system services.

Note. Including Beidou application terminal for emergency management, Beidou network transmission system, Beidou emergency comprehensive service system, emergency dedicated network transmission system, emergency management big data, Beidou emergency data transmission system...

Data resource pool and emergency management business application system.

3.2 Local and regional short message communication services

The BeiDou satellite navigation system provides positioning, navigation, timing, satellite-based augmentation, ground-based augmentation, and precise point positioning services that can be used in the field of emergency management.

3.3

In the field of emergency management, products based on the Beidou satellite navigation system provide positioning, navigation, short message communication and timing functions.

Note. The terminal can be used in the fields of emergency management for supervision and management, monitoring and early warning, command and rescue, decision support and government administration, and can also be used in other scenarios.