

ICS 35.180
CCS L 70



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

GB/T 34980.1-2026

Replacing GB/T 34980.1-2017

**Technical requirements for smart terminal software platforms -
Part 1: Operating system**

智能终端软件平台技术要求 第1部分：操作系统

Issued on: February 27, 2026

Implemented on: September 1, 2026

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

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	2
5 Operating System Framework	3
6.Kernel Requirements	3
7.Library Requirements	4
8.Runtime Requirements	5
9 Service Requirements	5
10 Application Development Kit Requirements	9
11 System Setup and Management Requirements	9
12 Commonly Used Tool Requirements	13
14 References	16

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 1 of GB/T 34980 "Technical Requirements for Software Platforms of Intelligent Terminals". GB/T 34980 has already published the following... part.

1.Operating System;

2.Applications and Services. This document replaces GB/T 34980.1-2017 "Technical Requirements for Intelligent Terminal Software Platforms Part

1.Operating Systems" and is consistent with... Compared with GB/T 34980.1-2017, apart from structural adjustments and editorial changes, the main technical changes are as follows:

a) The "Terms and Definitions" have been changed (see Chapter 3, Chapter 3 of the.2017 edition);

b) Added "Abbreviations" (see Chapter 4);

c) The word "compliance" has been removed (see Chapter 5 in the.2017 edition);

- d) The "Architecture" section (see Chapter 4 of the.2017 edition) has been changed to "Operating System Framework" (see Chapter 5);
- e) The "Functional Requirements" section has been removed (see Chapter 6 in the.2017 edition);
- f) Added "kernel requirements" (see Chapter 6);
- g) The "Reliability Requirements" section has been removed (see Chapter 7 in the.2017 edition);
- h) Added "Library Requirements" (see Chapter 7);
- i) The "Usability Requirements" have been removed (see Chapter 8 in the.2017 edition);

1 Scope

GB/T 34980.1-2026 is the Chinese national standard covering the operating system of a smart terminal - the kernel and its resource management, the application framework and permissions, the update and security mechanisms and the compatibility a device maker and an app developer both depend on. It replaces GB/T 34980.1-2017, nine years in which China acquired domestic mobile operating systems of its own. In force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 34980.1-2017. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document establishes the framework for the operating system of a smart terminal software platform and specifies the operating system (hereinafter referred to as "the operating system") for the smart terminal software platform. Requirements for the operating system (kernel, libraries, runtime, services, application development kits, system settings and management, common tools and security). This document applies to the design, development, and testing of operating systems for smart terminal software platforms, and also serves as a reference for smart terminal device manufacturers and application software developers. This information is intended to provide a reference for component developers and peripheral product developers.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 13000 General Coded Character Set for Information Technology (UCS) GB
(/T)15629.11 (all parts) Telecommunication and information exchange between information
technology systems (specific to local area networks and metropolitan area networks)
Requirements Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Smart terminal An electronic device with computing, data communication, and input/output functions, and whose operating system and application software can be dynamically configured.

Note. In this document, "smart terminal" specifically refers to a terminal with high processing performance, large RAM (volatile memory, generally not less than 128MB), and ample storage space. Space (non-volatile memory, generally not less than 2GB), such as mobile communication terminals, tablet microcomputers, vehicle terminals or industry terminals, etc.

3.2 The software suite that manages, maintains, and uses smart terminal devices, providing operating systems, applications, and services.

3.3 The system software running on the smart terminal, and the hardware devices and application software that control and manage the smart terminal. Note

1.The smart terminal operating system provides the installation, operation, scheduling and uninstallation of applications, allocates resources for applications and provides resource access interfaces. Note

2.The operating system of a smart terminal has multiple user input methods (such as touch, keyboard, keypad, voice, gesture, action, etc.) and features multimedia processing and network capabilities. Features include communication, device collaboration, security, and privacy protection.

3.4 application component Reusable and extensible software modules can achieve a certain fixed function.

11 Wireless LAN Media Access Control and Physical Layer Specification

GB 18030 Information Technology Chinese Coded Character Set

GB/T 34998 Technical Requirements for Mobile Terminal Browser Software