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General technical requirements for artificial intelligence operating system

人工智能操作系统通用技术要求

(English Translation)

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Foreword

GB/Z 299-2026 is a national guiding technical document (GB/Z) of the People's Republic of China, issued on 24 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China.

It is under the responsibility of the Standardization Administration of China.

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1 Scope

This guiding technical document sets out general technical requirements for an artificial intelligence operating system, meaning the system software layer intended to manage resources and support AI workloads and applications. It is intended for operating system developers, AI platform vendors, system integrators and the enterprises or public bodies that evaluate such products.

It was issued on 24 September 2026 and does not adopt an international standard. Because it is a GB/Z, it provides guidance for the technology community and is not a binding requirement. AI workloads place new demands on system software, from scheduling of accelerators to handling of models and data, and this document gives the market a common starting point for describing those demands. Organizations that are planning, building or procuring AI operating systems can use it as a reference for the general technical aspects such a system should address. A companion document in the same group addresses permission management for the same type of system.

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