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

GB/T 23000-2017

**Integration of informatization and industrialization management
systems - Fundamentals and vocabulary**

信息化和工业化融合管理体系 基础和术语

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and centralized by the Ministry of Industry and Information Technology of the People's Republic of China. The drafting unit of this standard. Institute of Electronic Science and Technology Information, Ministry of Industry and Information Technology, China Enterprise Confederation, Ministry of Industry and Information Technology Institute of Reliability and Environmental Testing, China Institute of Information and Communication, Institute of Electronics and Industry Standardization, Ministry of Industry and Information Technology, Tsinghua University University, Beijing Machinery Industry Automation Institute, Zhejiang Province Enterprise Information Promotion Association, UF Network Technology Co., Ltd., Xuzhou Engineering Machine Machinery Group Co., Ltd., Weichai Power Co., Ltd., Hebei Iron and Steel Co., Ltd. Chengde Branch, Wuxi City, the first cotton textile mill, Wu Loyalty instrument limited liability company. The main drafters of this standard. Zhou Jian, Zhang Wenbin, Zhao Guoxiang, Zheng Yongliang, Yu Xiuming, Li Qing, Li Xiaodong, Chen Jie, Song Maoen, Liu Xiaoyin, Li Jun, Wang Zhilin, Wang Tao, Liu Rongmeng, Zhou Yi, Zhou Ping, Cao Zhiyue, Zhang Qiliang, Xiao Linlin, Guo Li, Yang Baogang, Li Zhongfu, Fu Zheng, Chen Xi, Ding Huizhen, Dou Wei, Ma Dongyan, Tao Zheng, Ling Dabing, Li Junhong, Li Liang, Sun Jiexiang, Luo Hao, Guo Wei, Qiu Junsheng,

Information and industrialization integration (hereinafter referred to as the two fusion) management system series of standards, including basic and terminology, requirements, implementation guidelines, assessment Assessment guidelines, audit guidelines, etc., together constitute a group of closely related to the standard family, can guide all kinds of organizations to establish, implement, maintain and improve the two Integration management system, but also for the relevant parties to assess the organization of the two integration management system of compliance and effectiveness. This standard gives the basis and terminology of the two-tier integration management system, which is designed to help users understand and apply the two-way fusion System standards, in order to more effectively achieve the standard value. For the system to guide the standard application, can further develop the two integration management system key content and framework, the method and tool standards, according to According to different industries or different areas of the characteristics and needs of the development of classification standards, and

given the relevant reference model. Information and industrial integration management system Basic and terminology

1 Scope

China's national standard giving the fundamentals and vocabulary of the management system for the integration of informatization and industrialization. It establishes the basis of that management system - the theoretical explanation, the guiding principles, the framework and methods, the continual improvement cycle, the relationship with GB/T 23001 and with GB/T 23020, and the relationship between this system and other management systems - and it defines the related terms. The series it introduces is a certifiable management system standard in the same family as the quality and environmental ones, and it exists because of a policy problem rather than a technical one. Chinese industry invested very heavily in information technology and frequently got little back: systems were bought and installed without the organisational change that would have made them useful, so the plant ran as it always had with a computer recording it. The diagnosis in this framework is that digitalisation only pays when it is tied to a capability the enterprise has actually decided to build - a sustainable competitive advantage, in the language of the standard - and that the technology, the organisation, the processes and the data have to be changed together or not at all. This part sets out that reasoning and fixes the vocabulary for it: the terms for the integration itself, for the capabilities it is meant to produce, for the four elements that have to move together, and for the assessment and maturity concepts the rest of the series uses. Without it the requirements standard cannot be read consistently, which is why it comes first. Issued and in force since 22 May 2017.

This standard establishes the basis of the management system of informationization and industrialization (hereinafter referred to as "two fusion"), including theoretical explanation, guidance and original The framework and methods, continuous improvement, the relationship between GB/T 23001-2017 and GB/T 23020-2013, and the integration of two The relationship between the system and other management systems, and defines the relevant terms. The content of this standard applies to the two series of integration management system standards, for the development of two integrated management system, Staff and institutions for counseling, training and auditing services, and staff who develop relevant standards.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 23001-2017 Information technology and industrial integration management system requirements Code for evaluation of integration of informationization and industrialization of

industrial enterprises GB/T 23020-2013

3 Based on the integration of management system

3.1 Theoretical description With the continuous development, cross, infiltration and integration of the two historical processes of informationization and industrialization, the industrial society is accelerating to the information society. The integration of the two countries has become the only way for the sustainable development of the organization. The organization should profoundly understand the concept of integration of two, the strategic objectives and Focus on the task, the establishment of appropriate advancing methods and working mechanisms, so as to accelerate the transformation in the dynamic competitive environment, access to development opportunities. The two-way integration management system is to guide the organization to strengthen the change management, the system to promote the integration of the two management methods, a clear system to systematically Establish, implement, maintain and improve the integration of the two mechanisms of integration management. Through the standardization of the two fusion process, and to continue to control, guide The organization fully exploits the innovation potential of the data elements to promote and realize the interactive innovation of the four elements of data, technology, business process and organizational structure And continue to optimize, tap the potential of resource allocation, consolidate the new industrial base, seize the information development opportunities, so as to help organizations continue to build the letter The new capacity in the environment, to obtain a sustainable competitive advantage with its strategy to achieve innovation and development, intelligent development and green development.

3.2 guidance and principles

3.2.1 orientation In accordance with the integration of the two development concept, to guide the organization around its strategy to obtain sustainable competitive advantage for the focus, adhere to the data for Driven, integrated into a breakthrough, the process into the entry point, the service into the direction to create a new type of capacity as the main line, stable access to the expected results, Continuously improve overall effectiveness.

3.2.2 Principles The principles set forth in this standard are the basis of the two-tier integration management system standards and should be defined as organizational establishment, implementation, maintenance and improvement