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**Industrial internet enterprise cybersecurity - Part 2: Protection
requirements of industrial internet platform enterprise**

工业互联网企业网络安全 第2部分：平台企业防护要求

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
5 Determination of the security protection level of industrial Internet platform enterprises ..	2
6 Industrial Internet Platform Enterprise Security Protection Scope	2
7 Security protection requirements for industrial Internet platform enterprises	2
7.1 Initial level protection requirements	2
7.2 Basic protection requirements	10
30 Reference	31

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. This document is Part 2 of GB/T 44462 "Industrial Internet Enterprise Cybersecurity". GB/T 44462 has published the following part.

1. Protection requirements for industrial enterprises applying the Industrial Internet;

2. Protection requirements for platform enterprises;

3. Identity resolution enterprise protection requirements. 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 was proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This document was prepared by the National Communications Standardization Technical Committee (SAC/TC485) and the National Cyber Security Standardization Technical Committee (SAC/TC260). Jointly managed. This document was drafted by: China Academy of Information and Communications Technology, National Industrial Information Security Development Research Center, China Software Evaluation Center (Industrial and Information Technology Ministry Software and Integrated Circuit Promotion Center), China Industrial Internet Research Institute, China Electronics Technology Standardization Institute, Beijing Aerospace China University of Aeronautics and Astronautics, Shanghai Baosight Software Co., Ltd., Caos IoT Technology Co., Ltd., Hangzhou Anheng Information

Technology Co., Ltd. Nanjing Sinosig Technology Co., Ltd., Qi'anxin Technology Group Co., Ltd., Beijing Topsec Network Security Technology Co., Ltd. Beijing Luo'an Technology Co., Ltd., Beijing Venusstar Information Security Technology Co., Ltd., Beijing Shenzhou Green Alliance Technology Co., Ltd., State Grid E-commerce Technology Co., Ltd., Beijing Shengxin Network Technology Co., Ltd., Zhengzhou Xindajiean Information Technology Co., Ltd., Beijing Xinan Century Technology Co., Ltd., Guoneng Dadu River Big Data Service Co., Ltd., Foxconn Industrial Internet Co., Ltd., Tencent (Shenzhen) Technology Co., Ltd., State Grid Henan Electric Power Company, Xi'an Thermal Engineering Research Institute Co., Ltd., Shanghai Electric Science Research Institute (Group) Co., Ltd., Beijing Liufangyun Information Technology Co., Ltd., and Changyang Technology (Beijing) Co., Ltd. The main drafters of this document are. Wei Liang, Zhao Shuang, Li Shijing, Zhang Qian, Ke Haoren, Ma Juan, Yu Guangchen, Li Yi, Qin Guoying, Wang Ji, Wu Shiyu, Wang Chonghua, Zhou Hao, Zhang Zheyu, Wang Binbin, Yu Tao, Xu Hongtao, Li Junpeng, Tang Gang, Zhang Dexin, Cha Qiwen, Li Lin, Mi Jingfeng, Hong Sheng, An Chengfei, Liu Chang, Kou Zengjie, Zhang Xiaodong, Cui Yingying, Yin Yawei, Guo Xingke, Zhang Fu, Liu Weihua, Jiao Jingwei, Li Lin, Luo Wei, Dang Fangfang, Li Shuai, Yang Dong, Yuan Pengfei, Li Jiangli, and Wang Yizhou.

There are many industrial Internet companies, with different levels of informatization development and different types of business. The network security protection rules of the industry In order to solve the problem that the existing network security protection requirements cannot meet the actual needs of the development of industrial Internet enterprises, it is necessary to implement industrial Internet companies' network security is classified and graded and relevant standards are formulated. GB/T 44462 "Industrial Internet Enterprise Cybersecurity" is a guide for industrial Internet enterprises to carry out cybersecurity classification and grading protection work. It is a basic standard for industrial enterprises, industrial Internet platform enterprises, and industrial Internet identification resolution enterprises that apply the industrial Internet. and enterprise data security, and proposes different levels of network security management and security protection technical requirements to guide enterprises to implement Adaptive security measures, due to the different needs of file users, consist of four parts.

1. Protection requirements for industrial enterprises using the Industrial Internet. The purpose is to propose industrial enterprises using the Industrial Internet Security requirements that need to be implemented in carrying out network security classification and grading protection work.
2. Protection requirements for platform enterprises. The purpose is to propose the requirements for industrial Internet platform enterprises to carry out network security classification and classification. Safety requirements that need to be implemented in protective work.
3. Protection requirements for identity resolution companies. The purpose is to propose the

requirements for industrial Internet identity resolution companies to carry out network security analysis. Safety requirements that need to be implemented in class-based protection work.

4.Data protection requirements. The purpose is to propose the requirements for industrial Internet enterprises to carry out network security classification and classification protection work. Data security requirements to be implemented. This document is aimed at industrial Internet platform enterprises and proposes three different levels of security requirements. initial level, basic level, and enhanced level. The industry implements the classification and grading management of industrial Internet security, laying a solid foundation for industrial Internet platform companies to strengthen their network security protection capabilities. Base. Industrial Internet Enterprise Cybersecurity Part

1 Scope

GB/T 44462.2-2024 sets the cybersecurity protection requirements for industrial internet platform enterprises in China. A platform enterprise occupies a position that makes it an unusually consequential target: it holds the operational data of many industrial customers, it often has a path into their control systems through the edge devices it manages, and a compromise of the platform is therefore a compromise of everyone connected to it. The standard first determines the security protection level of the platform enterprise, then defines the scope of protection, that is which assets, systems and interfaces are covered, and then sets the protection requirements at each level in turn, from the initial level upward, covering the platform infrastructure, the edge and access layer, the data, the applications, the identity and access management, the security monitoring and incident response, the supply chain and the management system that has to be in place around all of it. It is Part 2 of the industrial internet enterprise cybersecurity series, and for any platform operator or their customers in China it is the text an assessment will be run against. It takes effect on 1 January 2025.

This document specifies the requirements of industrial Internet platform enterprises in terms of access layer, infrastructure layer, platform layer, application layer, management and physical environment. Face different levels of network security protection requirements. This document is applicable to guiding industrial Internet platform enterprises to carry out network security classification and grading protection work.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 25069 Information security technical terms

GB/T 39786 Information security technology Basic requirements for the application of cryptography in information systems

GB/T 42021 Overall network architecture of the industrial Internet

GB 50174 Data Center Design Specification

3 Terms and definitions

The terms and definitions defined in GB/T 25069 and GB/T 42021 and the following apply to this document.

3.1 Industrial Internet industrial internet The new infrastructure, application model and industrial ecology of the deep integration of the new generation of information and communication technology and industrial economy will be realized through the integration of people, machines, By fully connecting objects, systems, etc., we will build a new manufacturing and service system covering the entire industrial chain and the entire value chain. [Source: GB/T 42021-2022, 3.1]

3.2 Aiming at the digitalization, networking and intelligentization needs of manufacturing industry, we will build a service system based on massive data collection, aggregation and analysis to support manufacturing An industrial cloud platform with ubiquitous resource connectivity, flexible supply, and efficient configuration.

3.3 Aiming at the digitalization, networking and intelligentization needs of the manufacturing industry, we provide industrial big data, industrial APP and other information to the outside world through cloud platforms and other means. Enterprises that provide energy and public services.

4 Abbreviations

The following abbreviations apply to this document. APP. Application