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GB/T 47019-2026

**Industrial internet platform - Data dictionary for connecting
industrial equipment**

工业互联网平台 工业设备接入数据字典

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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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28). This document was drafted by: China Electronics Technology Standardization Institute, Inspur Cloud Industrial Internet Co., Ltd., University of Science and Technology Beijing, and Beidou. Tiandi Co., Ltd., China Pipeline Network Corporation Western Pipeline Co., Ltd., Dongfang Electric Corporation Dongfang Turbine Co., Ltd., Beijing Dongfang Turbine Co., Ltd. Fang Guoxin Technology Co., Ltd., Advantech Intelligent Technology Co., Ltd., Shanghai Baoxin Software Co., Ltd., and the National Industrial Information Security... National Development Research Center, China Pipeline Group Beijing Pipeline Co., Ltd., China Railway Engineering Services Co., Ltd., Shandong Provincial Information Technology Industry Development Center Research Institute, New Guomai (Jiangxi) Virtual Reality Technology Co., Ltd., Zhiqi Railway Equipment Co., Ltd., China Southern Power Grid Digital Platform Technology (Guangdong) Limited Liability Company, Sichuan Jiahua Machinery Co., Ltd., Jiejiang Technology (Dalian) Co., Ltd., Qingneng Blue Ocean Digital Technology (Beijing) Co., Ltd. China Southern Power Grid Internet Service Co., Ltd. The main drafters of this document are. Fan Kefeng, Wang Kai, Zhao Lihua, Xu Wei, Zhang Hanwen, Cang Tianzhu, Qiu Shuohan, Liu Pinjie, Wang Jingyi, and Sun Guoqiang. Liu Xiaoyan, Li Hang, Li Jun, Chen Mei, Pang Guanshi, Wang Ruimin, Yang Shukai, Zhou Yong, Zhang Xiaonan, An Cheng, Chen Chao, Huang Yumei, Hao Zhe,

Su Bin, Tao Xia, Quan Wenju, Liu Zhongyuan, Qin Song, Mei Yuanyuan, Shi Xiufang, Sun Xinyang, Ma Chi, Li Liang, Chen Ke, Jin Yanjun, He Wen. Industrial Internet Platform Industrial Equipment Access Data Dictionary

1 Scope

GB/T 47019-2026 is the Chinese national standard covering the data dictionary a machine presents when it connects to a platform - the identifiers, the measured quantities and their units, the states and alarms, so that a lathe from one maker and a press from another arrive in the same shape. First edition, in force since 1 May 2026, with the platform reference architecture GB/T 47021-2026. It was issued on 28 January 2026 and has been in force since 1 May 2026, as a first edition. 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 general principles for representing the data dictionary of device access based on the Industrial Internet platform, including industrial device access data. Dictionary structure, classification, and description. This document is applicable to the compilation of data dictionaries for different types of industrial equipment.

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 3100 International System of Units and its Applications

GB/T 11457 Terminology for Information Technology Software Engineering

GB/T 18391.1 Information technology metadata registry (MDR) Part

3 Terms and Definitions

The terms and definitions defined in GB/T 11457 and GB/T 18391.1, as well as the following terms and definitions, apply to this document.

3.1 metadata Data that defines and describes other data. [Source: GB/T 18391.1-2009, 3.2.16]

3.2 A subset of metadata describing the data attribute characteristics of devices connected to the industrial internet platform.

3.3 Equipment static data Data that reflects the inherent attributes of the equipment, operating conditions, environment, and the process of data acquisition and access.

3.4 Equipment runtime data It reflects data that varies over time during equipment operation and is generally measurable.

4. Abbreviations The following abbreviations apply to this document.

5 Overview

Based on the characteristics of industrial equipment data, the metadata used for accessing the data dictionary for industrial equipment is divided into static equipment data and operational equipment data.