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Industrial internet platform - Reference architecture

工业互联网平台 体系架构

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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 Academy of Information and Communications Technology, China Southern Power Grid Co., Ltd., and CNPC (Beijing) Digital Intelligence Research Institute. Limited Liability Company, Weichai Power Co., Ltd., Nanjing Iron & Steel Co., Ltd., Nanjing Big Data Group Co., Ltd., Hangzhou High-tech Innovation Group Limited Liability Company, Ansteel Digital Technology (Liaoning) Co., Ltd., Beijing Smart Grid Digital Technology Co., Ltd., China Southern Power Grid Data Platform and Security (Guangdong) Co., Ltd., China Southern Power Grid

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1 Scope

GB/T 47021-2026 is the Chinese national standard covering the reference architecture of an industrial internet platform - the edge layer that collects from machines, the infrastructure and platform services above it, the industrial applications on top, and the security and management that run through all of them. First edition, in force since 1 May 2026, and it is the frame the other industrial internet standards of this year hang on. 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 architecture of the industrial internet platform, including the business view, functional view, and implementation view. An abstraction of the platform's business scenario requirements and capability requirements. This document applies to the construction and application of industrial internet platforms.

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 35301 Information Technology - Cloud Computing Platform as a Service (PaaS) Reference Architecture

3 Terms and Definitions

The terms and definitions defined in GB/T 35301 and the following terms and definitions apply to this document.

3.1 architecture The basic organizational structure of a system at the component level includes the relationships between internal components, the relationships between components and the external environment, and the determinants of... The principles of design and evolution.

3.2 activity A set of specific tasks.

3.3 edge The side closer to the data source.

3.4 function component A functional component required to participate in the activity.

4. Abbreviations The following abbreviations apply to this document. APP. Application IoT. Internet of Things