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**NATIONAL STANDARD OF THE
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**Internet of things(IoT) - Compatibility requirements and model
for devices within industrial IoT systems**

物联网 工业物联网系统设备兼容性要求和模型

(English Translation)

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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 is required.

This document is equivalent to ISO/IEC 30162:2022 "Internet of Things - Industrial Internet of Things system equipment compatibility requirements and models".

The following minimal editorial changes have been made to this document.

--In Appendix C, C.2, C.3 and C.5, explanatory notes are added; in C.5, the industrial Internet of Things system equipment is compatible with the standard.

The capacitive model adds examples of the compatible application of the connection technology between nodes and my country's industrial Internet of Things devices;

--Informative Appendix NA is added, which lists the abbreviations used in this document for ease of use.

1 Scope

This document specifies the Industrial Internet of Things connectivity network model and the devices and networks within the Industrial Internet of Things system from the following aspects.

General compatibility requirements.

- Data transmission protocol interaction;
- Distributed data interoperability and management;
- Connectivity framework;
- Connectivity transmission;
- Connectivity network;
- Best practices and guidance for the Industrial Internet of Things (IIoT) sector.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

The URLs for terminology databases used for standardization maintained by ISO and IEC

are as follows.

Co-existence

Under the condition that it shares common environment and resources with other products, the product can effectively perform its required functions and will not cause damage to other products.

The extent to which the product has a negative impact.

[Source. ISO/IEC 25010:2023, 4.2.3.1] 3.2 Compatibility Products, systems or components can exchange information with other products, systems or components while sharing the same hardware or software environment.

and/or the extent to which it performs its required functions.

[Source. ISO/IEC 25010:2023, 4.2.3] 3.3 edge gateway A heterogeneous IoT gateway used to participate in the implementation of functions such as mobile edge host data processing.

Industrial internet of things compatibility Industrial systems, information resources or other IIoT entities can communicate with other