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Replacing GB/T 28168-2011

**Information technology - Middleware - Technical requirement for
message-oriented middleware**

信息技术 中间件 消息中间件技术要求

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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.

This document replaces GB/T 28168-2011 "Technical Specification for Information Technology Middleware Message Middleware" and GB/T 28168- Compared with 2011, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Change "Architecture and composition of message middleware" to "Technical reference model of message middleware" (see Chapter 5, 2011 edition) Chapter 4);
- b) Change "functional requirements" to "transmission management" and "application development" (see Chapters 8 and 11, Chapter 5 of the 2011 edition);
- c) Added storage management (see Chapter 7);
- d) Changed message management (see Chapter 9, 4.2.4 of the 2011 edition);
- e) Added message service (see Chapter 10);

f) Change "Quality Characteristics Attributes" to "Operation and Maintenance Management", "Reliability" and "Usability" (see Chapters 12, 14 and 15, Chapter 7 of the 2011 edition);

g) Safety management has been modified (see Chapter 13, 4.2.9 of the 2011 edition);

h) Deleted the supported operating environments (see Chapter 8 of the 2011 edition).

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 and coordinated by the National Information Technology Standardization Technical Committee (SAC/TC28).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2011 as GB/T 28168-2011;
- This is the first revision.

1 Scope

This document establishes the technical reference model of message middleware and specifies deployment management, storage management, transmission management, message management, message Requirements for services, application development,

operation and maintenance management, security management, reliability and ease of use.

This document applies to the design, development, application and testing of message middleware software.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 message-oriented middleware

Software that supports messaging and integration of distributed systems through queuing and messaging mechanisms.

[Source. GB/T 33847-2017, 2.8]

3.2 message

Information passed or exchanged between different applications.

Note. The format and content of the message are determined by negotiation between the sender and receiver of the message.

3.3 Message sender

The entity that originated the message.

Note. The entity that actively publishes messages by subscribing to topics is called a message publisher.

3.4 message receiver

The entity that receives the message.

Note. An entity that actively receives messages by subscribing to a topic is called a message subscriber.

3.5 queue

A buffer entity that stores messages.

3.6 message priority

Set different priority levels for messages according to their urgency.