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Replacing GB/T 26232-2010

**Information technology - Middleware - Technical requirement for
application server middleware**

信息技术 中间件 应用服务器中间件技术要求

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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 26232-2010 "Technical Specification for Application Server Based on J2EE" and is consistent with GB/T 26232-2010.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) Changed the application server middleware technology reference model (see Chapter 5,

4.1 and 4.2 of the 2010 edition);

- b) The basic services have been changed (see Chapter 6, 5.4 of the 2010 edition);
- c) The container has been changed (see Chapter 7, 5.1, 5.2, 5.3 of the 2010 edition);
- d) The application support has been changed (see Chapter 8, 5.5.1, 5.5.2, 5.5.3 and 5.5.4 of the 2010 edition);
- e) Cluster management has been changed (see 9.3, 5.5.6 of the 2010 edition);
- f) Changed log management (see 9.6, 5.5.5 of the 2010 edition);
- g) Added operation and maintenance management services, including configuration management, single instance management, application deployment management and monitoring diagnosis (see Chapter 9);
- h) Added safety requirements (see Chapter 10);
- i) Performance metrics have been added (see Chapter 11);
- j) increased fault tolerance (see 12.2);
- k) Improved maintainability (see Chapter 13);
- l) Changed portability (see Chapter 14, Chapter 8 of the 2010 edition);
- m) Deleted the operating environment requirements (Chapter 9 of the 2010 edition);
- n) Improved ease of use (see Chapter 15).

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.

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

- First published in 2010 as GB/T 26232-2010;
- This is the first revision.

Information Technology Middleware Application Server Middleware Technical Requirements

1 Scope

This document specifies the technical architecture of the application server middleware, including basic services, containers, application support, operation and maintenance management services, and security.

Requirements such as security requirements, performance metrics, reliability, maintainability, portability, and ease of use.

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

2 Normative references

GB/T 32905

GB/T 32907

GB/T 32918

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 [Source. GB/T 33847-2017, 2.9, modified]

Software that provides a running environment and access interface for server-side applications.

3.2 Dependency Injection

An instantiation of a component or service that is constructed and initialized by the container based on its dependencies.