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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32399-2015

**Information technology -- Cloud computing -- Reference
architecture**

信息技术 云计算 参考架构

(English Translation)

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Foreword

This Standard is drafted in accordance with the rules given in GB/T 1.1-2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This Standard uses the redraft law to modify and adopt the international standard ISO/IEC 17789.2014 "Information technology - Cloud computing - Reference architecture".

Compared with ISO/IEC 17789.2014, in addition to editorial changes, the main technical changes in this Standard are as follows.

- Merge 2.1 and 2.2 of clause 2 Normative references and delete the 2.1 and

2.2 clause numbers and titles;

- Modify the figure numbers in the text. Numbering according to clauses is changed to numbering according to the order in which they appear in this Standard;

- Modify the table numbers in the text. Numbering according to clauses is changed to numbering according to the order in which they appear in this Standard;

- ADD the abbreviation OSS to clause 4;

- Amend Annex B as Bibliography (see Bibliography).

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee 28 on Information Technology of Standardization Administration of China (SAC/TC 28).

Drafting organizations of this Standard. China Electronics Standardization Institute, Shenzhen Kingdee Middleware Co., Ltd., Research Institute of China Mobile Communications Co., Ltd., Huawei Technologies Co., Ltd., Inspur (Beijing) Electronic Information Industry Co., Ltd., Neusoft Group Co., Ltd., Shanghai Development Center of Computer Software Technology, Zhongxing

Telecommunication Equipment Corporation, Beijing TongTech Co., Ltd., Datang Telecom Technology Co., Ltd., The Fifth Electronics Research Institute of the Ministry of Industry and Information Technology, China National Software & Service Co., Ltd., Taiji Computer Corp., Ltd.

Main drafters of this Standard. Wang Jieping, Lin Lin, Wen Lanling, Tian Zhong,
Information technology - Cloud computing -
Reference architecture

1 Scope

This Standard specifies the cloud computing reference architecture (CCRA).
The reference architecture includes the cloud computing roles, cloud computing activities, and the cloud computing functional components and their relationships.

2 Normative references

The following documents are indispensable for the application of this document.

For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB/T 32400-2015 Information technology - Cloud computing - Overview and vocabulary (ISO/IEC 17788.2014, IDT)

ISO/IEC 29100.2011 Information technology - Cloud computing - Overview and vocabulary [Translator note. should be "Information technology - Security techniques - Privacy framework"]

3 Terms and definitions

For the purposes of this Standard, the terms and definitions in GB/T 32400-

3.1.1 Architecture

Fundamental concepts or properties of a system in its environment embodied in its elements, relationships and in the principles of its design and evolution.

[ISO/IEC/IEEE 42010.2011]

3.1.2 Personally identifiable information; PII

Any information that (a) can be used to identify the PII principal to whom such

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