BSI Standards Publication

Information technology — Cloud computing

Part 1: Vocabulary

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National foreword

This British Standard is the UK implementation of ISO/IEC 22123-1:2023. It supersedes BS ISO/IEC 22123-1:2021 and BS ISO/IEC 17788:2014, which are withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/38, Cloud Computing and Distributed Platforms.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Information technology — Cloud computing —

Part 1:
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Partie 1: Vocabulaire

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 38, *Cloud Computing and Distributed Platforms*.

This second edition of ISO/IEC 22123-1 cancels and replaces ISO/IEC 17788:2014 and ISO/IEC 22123-1:2021, which have been technically revised.

The main changes are as follows:

— the definition for hybrid cloud was changed;

— definitions for CSC role, CSP role, and CSN role were added;

— the definitions for CSC, CSP, and CSN were revised to leverage CSC role, CSP role, and CSN role, respectively;

— the ISO/IEC 27000 definitions for confidentiality, integrity, and information security were removed;

— the definition of inter-cloud computing was changed;

— terms relating to multi-cloud were added;

— peer cloud service and peer cloud service provider were replaced with secondary cloud service and secondary cloud service provider, respectively; and

— terms relating to multiplicity and organization of cloud services were added into a new subclause.

A list of all parts in the ISO/IEC 22123 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

INTERNATIONAL STANDARD

Information technology — Cloud computing —

Part 1:
Vocabulary

1   Scope

This document defines terms used in the field of cloud computing.

2   Normative references

There are no normative references in this document.

3   Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1   Terms related to cloud computing foundation

3.1.1
cloud computing
paradigm for enabling network access to a scalable and elastic pool of shareable physical or virtual resources with self-service provisioning and administration on-demand

Note 1 to entry: Examples of resources include servers, operating systems, networks, software, applications, and storage equipment.

Note 2 to entry: Self-service provisioning refers to the provisioning of resources provided to *cloud services* (3.1.2) performed by *cloud service customers* (3.3.2) through automated means.

3.1.2
cloud service
one or more capabilities offered via *cloud computing* (3.1.1) invoked using a defined interface

3.1.3
cloud solution
cloud services (3.1.2) combined and controlled to meet *cloud service customer* (3.3.2) requirements

Note 1 to entry: A *cloud solution* can use any combination of *cloud deployment models* (3.2.1).