## INTERNATIONAL STANDARD

ISO/IEC 22123-1

Second edition 2023-02

# Information technology — Cloud computing —

Part 1: **Vocabulary** 

Technologies de l'information — Informatique en nuage — Partie 1: Vocabulaire





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#### **Foreword**

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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 <a href="https://www.iso.org/members.html">www.iso.org/members.html</a> and <a href="https://www.iso.org/members.html">www.iso.org/members.html</a

### 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 <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="https://www.electropedia.org/">https://www.electropedia.org/</a>

#### 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).