
**Information technology — Cloud
computing —**

**Part 3:
Reference architecture**

*Technologies de l'information — Informatique en nuage —
Partie 3: Architecture de référence*



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Contents

	Page
Foreword.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
3.1 Terms related to security and privacy.....	1
3.2 Terms relating to architecture.....	1
4 Symbols and abbreviated terms.....	2
5 Conventions.....	2
6 Cloud computing reference architecture goals and objectives.....	2
7 CCRA viewpoints.....	3
7.1 General.....	3
7.2 CCRA architectural views.....	3
7.3 User view of cloud computing.....	5
7.3.1 General.....	5
7.3.2 Cloud computing activities.....	6
7.3.3 Parties.....	6
7.3.4 Roles and sub-roles.....	6
7.3.5 Cloud services.....	7
7.3.6 Cloud deployment models.....	7
7.3.7 Cloud computing cross-cutting aspects.....	8
7.4 Functional view of cloud computing.....	8
7.4.1 General.....	8
7.4.2 Functional components.....	9
7.4.3 Functional layers.....	9
7.4.4 Multi-layer functions.....	9
7.5 Relationship between the user view and the functional view.....	10
7.6 Relationship of the user view and functional view to cross-cutting aspects.....	10
7.7 Implementation view of cloud computing.....	10
7.8 Deployment view of cloud computing.....	11
8 User view.....	11
8.1 Cloud computing roles and sub-roles.....	11
8.1.1 General.....	11
8.1.2 Cloud service customer role.....	12
8.1.3 Cloud service provider role.....	14
8.1.4 Cloud service partner role.....	17
8.2 Cloud computing activities.....	19
8.2.1 General.....	19
8.2.2 Activities associated with the CSC role.....	19
8.2.3 Activities associated with the CSP role.....	22
8.2.4 Activities associated with the CSN role.....	28
8.3 Cross-cutting aspects.....	29
8.3.1 General.....	29
8.3.2 Auditability.....	30
8.3.3 Governance.....	30
8.3.4 Interoperability.....	30
8.3.5 Maintenance and versioning.....	30
8.3.6 Performance.....	31
8.3.7 Portability.....	31
8.3.8 Protection of Personally Identifiable Information.....	32
8.3.9 Reversibility.....	32
8.3.10 Security.....	32
8.3.11 Service levels and service level agreements.....	34

9	Functional view	35
9.1	Functional architecture	35
9.1.1	General	35
9.1.2	Layering framework	35
9.2	Functional components	37
9.2.1	General	37
9.2.2	User layer functional components	38
9.2.3	Access layer functional components	38
9.2.4	Service layer functional components	39
9.2.5	Resource layer functional components	40
9.2.6	Multi-layer functions	41
10	Relationship between the user view and the functional view	47
10.1	General	47
10.2	Overview	48
10.2.1	Service capabilities functional component	48
10.2.2	Common roles, activities and functional components	48
10.2.3	Multi-tenancy and isolation	49
Annex A (informative) Further details regarding the user view and functional view		50
Bibliography		59

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.

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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 first edition of ISO/IEC 22123-3 cancels and replaces ISO/IEC 17789:2014, which has been technically revised.

The main changes are as follows:

- added differentiation between cloud computing parties and role;
- Figures 13, 14, and 15 were removed.

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.

Information technology — Cloud computing —

Part 3: Reference architecture

1 Scope

This document specifies the cloud computing reference architecture (CCRA).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 22123-1, *Information technology — Cloud computing — Part 1: Vocabulary*

ISO/IEC 22123-2, *Information technology — Cloud computing — Concepts*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 22123-1 and the following 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 security and privacy

3.1.1

personally identifiable information

PII

any information that (a) can be used to establish a link between the information and the natural person to whom such information relates, or (b) is or can be directly or indirectly linked to a natural person

Note 1 to entry: The “natural person” in the definition is the PII principal. To determine whether a PII principal is identifiable, account should be taken of all the means which can reasonably be used by the privacy stakeholder holding the data, or by any other party, to establish the link between the set of PII and the natural person.

[SOURCE: ISO/IEC 29100:2011/Amd.1:2018, 2.9]

3.2 Terms relating to architecture

3.2.1

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

[SOURCE: ISO/IEC/IEEE 42010:2011, 3.2]