
**Information technology — Security
techniques — Code of practice for
protection of personally identifiable
information (PII) in public clouds
acting as PII processors**

*Technologies de l'information — Techniques de sécurité — Code de
bonnes pratiques pour la protection des informations personnelles
identifiables (PII) dans l'informatique en nuage public agissant
comme processeur de PII*



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Published in Switzerland

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Foreword

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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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

0 Introduction

0.1 Background and context

Cloud service providers who process Personally Identifiable Information (PII) under contract to their customers have to operate their services in ways that allow both parties to meet the requirements of applicable legislation and regulations covering the protection of PII. The requirements and the way in which the requirements are divided between the cloud service provider and its customers vary according to legal jurisdiction, and according to the terms of the contract between the cloud service provider and the customer. Legislation which governs how PII is allowed to be processed (i.e. collected, used, transferred and disposed of) is sometimes referred to as data protection legislation; PII is sometimes referred to as personal data or personal information. The obligations falling on a PII processor vary from jurisdiction to jurisdiction, which makes it challenging for businesses providing cloud computing services to operate multinationally.

A public cloud service provider is a 'PII processor' when it processes PII for and according to the instructions of a cloud service customer. The cloud service customer, who has the contractual relationship with the public cloud PII processor, can range from a natural person, a 'PII principal', processing his or her own PII in the cloud, to an organization, a 'PII controller', processing PII relating to many PII principals. The cloud service customer might authorize one or more cloud service users associated with it to use the services made available to it under its contract with the public cloud PII processor. Note that the cloud service customer has authority over the processing and use of the data. A cloud service customer who is also a PII controller might be subject to a wider set of obligations governing the protection of PII than the public cloud PII processor. Maintaining the distinction between PII controller and PII processor relies on the public cloud PII processor having no data processing objectives other than those set by the cloud service customer with respect to the PII it processes and the operations necessary to achieve the cloud service customer's objectives.

NOTE Where the public cloud PII processor is processing cloud service customer account data, it might be acting as a PII controller for this purpose. This International Standard does not cover such activity.

The intention of this International Standard, when used in conjunction with the information security objectives and controls in ISO/IEC 27002, is to create a common set of security categories and controls that can be implemented by a public cloud computing service provider acting as a PII processor. It has the following objectives.

- To help the public cloud service provider to comply with applicable obligations when acting as a PII processor, whether such obligations fall on the PII processor directly or through contract.
- To enable the public cloud PII processor to be transparent in relevant matters so that cloud service customers can select well-governed cloud-based PII processing services.
- To assist the cloud service customer and the public cloud PII processor in entering into a contractual agreement.
- To provide cloud service customers with a mechanism for exercising audit and compliance rights and responsibilities in cases where individual cloud service customer audits of data hosted in a multi-party, virtualized server (cloud) environment might be impractical technically and might increase risks to those physical and logical network security controls in place.

This International Standard does not replace applicable legislation and regulations, but can assist by providing a common compliance framework for public cloud service providers, in particular those that operate in a multinational market.

0.2 PII protection controls for public cloud computing services

This International Standard is designed for organizations to use as a reference for selecting PII protection controls within the process of implementing a cloud computing information security management system based on ISO/IEC 27001, or as a guidance document for implementing commonly accepted PII protection controls for organizations acting as public cloud PII processors. In particular,