SLOVENSKI STANDARD
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Varstvo potrošnikov - Vgrajena zasebnost za potrošniško blago in storitve - 2. del: Primeri uporabe

Consumer protection — Privacy by design for consumer goods and services — Part 2: Use cases

Protection des consommateurs — Respect de la vie privée assuré dès la conception des biens de consommation et services aux consommateurs — Partie 2: Cas d'usage

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ICS:

03.080.30	Storitve za potrošnike	Services for consumers
03.100.01	Organizacija in vodenje podjetja na splošno	Company organization and management in general

SIST-TP ISO/TR 31700-2:2024 **en**

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TECHNICAL REPORT

ISO/TR 31700-2

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Consumer protection — Privacy by design for consumer goods and services —

Part 2:
Use cases

Protection des consommateurs — Respect de la vie privée assuré dès la conception des biens de consommation et services aux consommateurs —
Partie 2: Cas d'usage

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Foreword

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This document was prepared by Project Committee ISO/PC 317, *Consumer Protection – privacy by design for consumer goods and services*.

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.

Introduction

ISO 31700-1[1] provides high-level requirements and recommendations for organizations using privacy by design in the development, maintenance and operation of consumer goods and services. These are grounded in a consumer-focused approach, in which consumer privacy rights and preferences are placed at the heart of product development and operation.

Use case help to identify, clarify and organize system requirements related to a set of goals, by illustrating a series of possible sequences of interactions between stakeholder(s) and system(s) in a particular ecosystem.

The use cases in this document use a template that is based on IEC 62559-2 [2] while enabling a focus on privacy by design challenges and on the ISO 31700-1 requirements.

Although there are a wide range of use cases, this document provides three sample use cases to help further understand the implementation of ISO 31700-1: on-line retailing, a fitness company and smart locks.

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Consumer protection — Privacy by design for consumer goods and services —

Part 2:
Use cases

1   Scope

This document provides illustrative use cases, with associated analysis, chosen to assist in understanding the requirements of 31700-1.

The intended audience includes engineers and practitioners who are involved in the development, implementation or operation of digitally enabled consumer goods and services.

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 http://www.electropedia.org

3.1
privacy by design
design methodologies in which privacy is considered and integrated into the initial design stage and throughout the complete lifecycle of products, processes or services that involve processing of Personally Identifiable Information, including product retirement and the eventual deletion of any associated personally identifiable information

Note 1 to entry: The lifecycle also includes changes or updates.

[SOURCE: ISO 31700-1:2023, 3.5]

3.2
use case
description of a sequence of interactions of a consumer and a consumer product used to help identify, clarify, and organize requirements to support a specific business goal

Note 1 to entry: Consumers can be users, engineers, of systems.

Note 2 to entry: A system of interest in this document is a consumer goods or service.

[SOURCE: ISO 31700-1:2023, 3.22, modified — note 2 added]

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4 Abbreviated terms

NIST   National Institute of Standards and Technology

PII   Personally identifiable information

5 Overview of ISO 31700-1 requirements and related concepts

5.1 ISO 31700-1 Requirements

Table 1 lists ISO 31700-1:2023[1] requirements, categorised as:

— general (ISO 31700-1:2023, clause 4);

— consumer communication requirements (ISO 31700-1:2023, clause 5);

— risk management requirements (ISO 31700-1:2023, clause 6);

— develop, deploy and operated privacy controls (ISO 31700-1:2023, clause 7);

— end of PII lifecycle requirements (ISO 31700-1:2023, clause 8).

Table 1 — ISO 31700-1 requirements

Category	ISO 31700-1 section number and requirement
General	4.2 Design capabilities to enable consumers to enforce their privacy rights
	4.3 Develop capability to determine consumer privacy preferences
	4.4 Design human computer interface (HCI) for privacy
	4.5 Assign relevant roles and authorities
	4.6 Establish multi-disciplinary responsibilities
	4.7 Develop privacy knowledge, skill and ability
	4.8 Ensure knowledge of privacy controls
	4.9 Documented information management
Consumer communication requirements	5.2 Provision of privacy information
	5.3 Accountability of responsible persons to providing privacy information
	5.4 Responding to consumer inquiries and complaints
	5.5 Communicating to diverse consumer population
	5.6 Prepare data breach communications
Risk management requirements	6.2 Conduct a privacy risk assessment
	6.3 Assess privacy capabilities of third parties
	6.4 Establish and document requirements for privacy controls
	6.5 Monitor and update risk assessment
	6.6 Include privacy risks in cybersecurity resilience design

Table 1 *(continued)*

Category	ISO 31700-1 section number and requirement
Develop, deploy and operate designed privacy controls	7.2 Integrate the design and operation of privacy controls into the products development and management lifecycles
	7.3 Design privacy controls
	7.4 Implement privacy controls
	7.5 Design privacy control testing
	7.6 Manage the transition of privacy controls
	7.7 Manage the operation of privacy controls
	7.8 Prepare breach management
	7.9 Operate privacy controls for the processes and products that the product in scope depends upon through the PII lifecycle
End of PII lifecycle requirements	8.2 Design privacy controls for retirement and end of use

5.2 Related concepts

The tables in this clause illustrate the relationships between the requirements of ISO 31700-1 and related privacy engineering concepts:

— lifecycle processes as shown in Table 2;

— privacy protection goals,[5] as shown in Table 3.

— NIST Privacy framework functions,[7] as shown in Table 4;

— NIST privacy engineering objectives as shown in Table 5.

The resulting relations are shown in Table 6.

Table 2 — Lifecycle processes

Organisation policies	Activities carried out by the organisation to define and maintain policies related to privacy by design
Product design and development	Activities carried out by the organisation to design and develop consumer goods or services
Product use	Activities carried out by the organisation to manage privacy when consumer goods or services are in use

Table 3 — Privacy protection goals

Unlinkability	Property that privacy-relevant data cannot be linked across domains that are constituted by a common purpose and context
	NOTE It ensures that a PII principal can make multiple uses of resources or services without others being able to link these uses together
Transparency	Property that ensures that all privacy-relevant data processing including the legal, technical and organizational setting can be understood as documented or stated
Intervenability	Property that ensures that PII principals, PII controllers, PII processors and supervisory authorities can intervene in all privacy-relevant data processing[12]

Table 4 — NIST Privacy Framework functions

Identify-P	Develop the organizational understanding to manage privacy risk for individuals arising from data processing