

Ochrana súkromia Návod na ochranu súkromia pre inteligentné mestá

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Privacy protection Privacy guidelines for smart cities

Protection de la vie privée Lignes directrices pour le respect de la vie privée dans les villes intelligentes

Datenschutz Datenschutzrichtlinien für Smart Cities

Táto predbežná norma obsahuje anglickú verziu ISO/IEC TS 27570: 2021.

This prestandard includes the English version of ISO/IEC TS 27570: 2021.

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do 31. 1. 2023.

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Anotácia

Tento dokument sa vzťahuje na všetky typy a veľkosti organizácií vrátane verejných a súkromných spoločností, vládnych subjektov a neziskových organizácií, ktoré poskytujú služby v prostredí inteligentných miest.

Poskytuje návod:

- na ochranu súkromia ekosystému inteligentných miest;
- ako možno normy využívať na globálnej a organizačnej úrovni v prospech občanov; a
- pre procesy na ochranu súkromia ekosystému inteligentných miest.

Vypracovanie normy

Spracovateľ normy: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, Bratislava

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see patents.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *Information security, cybersecurity and privacy protection*.

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.

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Introduction

The growing integration of ICT technologies (e.g. cloud computing, IoT, big data, mobile networks, artificial intelligence and machine learning) in smart cities will allow for improved data sharing capabilities to achieve better services. But the growing complexity of the ICT infrastructure will also create vulnerabilities at security and privacy level. Security incidents can lead to essential services not operating properly, for instance a massive electricity supply shortage. Likewise, unauthorized access to personal data can lead to major privacy breaches, for instance access to personal health data records.

Ensuring that privacy is properly dealt within smart cities is a challenge. First, a wide variety of public and private stakeholders can be involved such as:

- agencies in charge of managing essential city services for instance administration services;
- business organizations in charge of operating services for instance electricity distribution:
- organizations in supply chains associated with the deployment of related infrastructure for instance transport systems; and
- associations representing the viewpoints of citizens.

Secondly, a wide variety of standards can be used such as:

- privacy standards;
- smart city standards;
- cloud computing standards;
- IoT standards;
- big data standards; and
- IT governance standards.

<u>Figure 1</u> shows examples of such standards. This document thus focuses on providing guidance on the use of standards, while taking into account the variety of stakeholders in a smart city ecosystem.

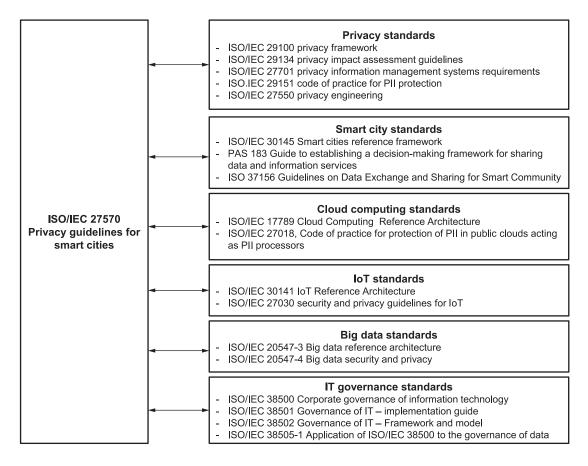


Figure 1 — Examples of standards to reference

Figure 2 summarizes privacy recommendations to smart cities ecosystems in this document, further numbered R6.1, R6.2, R6.3, and R6.4.

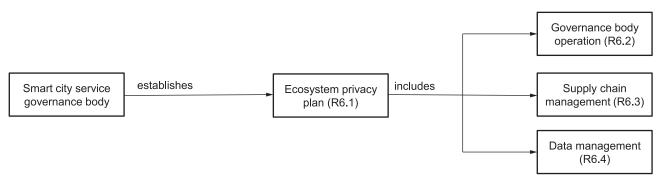


Figure 2 — Ecosystem guidance for privacy

Figure 3 summarizes privacy recommendations to smart cities processes in this document, further numbered R8.2, R8.3, R8.4, and R8.5.

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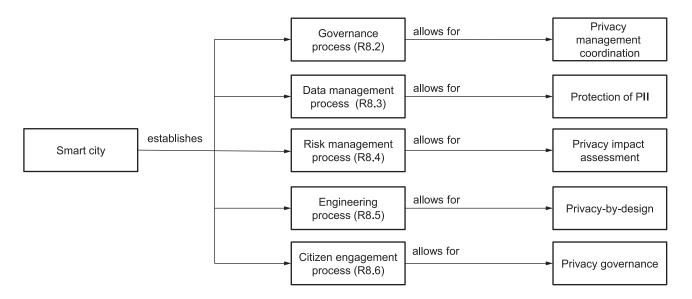


Figure 3 — Process guidance for privacy

It is foreseen that this document will pave the way to future privacy standards for smart cities. <u>Table 1</u> provides a list of possible future standards.

Table 1 — Examples of possible future standards

Category	Standards				
	Framework for privacy management in smart cities				
	Guidelines for communication between organizations				
	Guidelines for privacy management plans in smart cities				
Privacy manage-	Guidelines for privacy policy making in smart cities including data retention				
ment to keep track	Guidelines for privacy impact assessment reports in smart cities				
and monitor PII assets that are	Guidelines for consent management in smart cities				
exploited in smart	Guidelines for privacy accountability and transparency management in smart cities				
cities.	Guidelines for privacy breach management in smart cities				
	Guidelines for privacy-by-design of smart city services				
	Guidelines for the integration of privacy concerns in data exchange agreements				
	Smart city services security and privacy assurance				
Privacy engineering in smart city ecosystems	Guidelines for privacy engineering ^a in smart cities				
Collaboration in	Guidelines for citizen engagement				
smart city ecosys- tems	Guidelines for communication between organizations (for each type of organization, e.g. administration)				
	Common privacy management information model in smart cities				
Interoperability to	Common privacy impact assessment information in smart cities				
avoid vendor lock-in	Common description of privacy capabilities in smart cities				
	Common description of privacy incidents in smart cities				
Privacy engineering focuses on the integration of privacy concerns in the engineering of a system.					

Privacy protection — Privacy guidelines for smart cities

1 Scope

The document takes a multiple agency as well as a citizen-centric viewpoint.

It provides guidance on:

- smart city ecosystem privacy protection;
- how standards can be used at a global level and at an organizational level for the benefit of citizens; and
- processes for smart city ecosystem privacy protection.

This document is applicable to all types and sizes of organizations, including public and private companies, government entities, and not-for-profit organizations that provide services in smart city environments.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN