PD ISO/TR 37178:2023



BSI Standards Publication

Smart community infrastructures — Data exchange and sharing for the lamppost network in smart community

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee SDS/2, Smart and sustainable cities and communitiesSustainable Communities.

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Published by BSI Standards Limited 2023

ISBN 978 0 539 26485 2

ICS 13.020.20; 35.110

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 September 2023.

Amendments/corrigenda issued since publication

Date	Text affected

PD ISO/TR 37178:2023

TECHNICAL REPORT

ISO/TR 37178

First edition
2023-09-08

Smart community infrastructures — Data exchange and sharing for the lamppost network in smart community

Infrastructures urbaines intelligentes — Échange et partage des données pour le réseau d'éclairage public des communautés territoriales intelligentes

Reference number
ISO/TR 37178:2023(E)

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Foreword

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This document was prepared by Technical Committee ISO/TC 268, *Sustainable cities and communities*, Subcommittee SC 1, *Smart community infrastructures*.

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Introduction

ISO 37156 and ISO 37170 give guidelines on principles and the framework for data exchange and sharing to entities having authority to develop and operate community infrastructure.

Guided by the principles given in ISO 37156 and ISO 37170, this document examines the needs and model of data exchange and sharing for the lamppost network as an important type of smart community infrastructure, which is of special importance to the general robustness of smart community infrastructures.

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TECHNICAL REPORT **ISO/TR 37178:2023**

Smart community infrastructures — Data exchange and sharing for the lamppost network in smart community

1 Scope

This document examines the lamppost network as an important smart community infrastructure from the perspective of data exchange and sharing, guided by ISO 37156 and ISO 37170.

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 https://www.electropedia.org/

3.1
community infrastructure
systems of facilities, equipment and services that support the operations and activities of communities

Note 1 to entry: Such community infrastructures include, but are not limited to, energy, water, transportation, waste and information and communication technologies (ICT).

[SOURCE: ISO 37100:2016, 3.6.1]

3.2
data exchange
accessing, transferring and archiving of data

[SOURCE: ISO 37156:2020, 3.3.5]

3.3
data sharing
providing shared, exchangeable and extensible data to enable *community infrastructure* (3.1)

[SOURCE: ISO 37156:2020, 3.3.6]

3.4
data spectrum
differentiation of data assets on the basis of whether they are considered closed, shareable or open

[SOURCE: BSI PAS 183:2017]

3.5
smart community infrastructure
community infrastructure (3.1) with enhanced technological performance that is designed, operated and maintained to contribute to sustainable development and resilience of the community

[SOURCE: ISO 37100:2016, 3.6.2, modified — Notes to entry deleted.]

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