ICS 91.040.01, 97.120 TECHNICKÁ NORMALIZAČNÁ INFORMÁCIA December 2024

TNI	**Automatizácia v budovách, riadenie a manažérstvo budov Inteligentné budovy Popis a aspekty**	**TNI CEN/TR 18081** 74 7311

Building automation, controls and building management - Smart building - Description and aspects

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 18081:2024.
This Technical standard information includes the English version of CEN/TR 18081:2024.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 11/24

139454

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER REPORT

CEN/TR 18081

July 2024

ICS 91.040.01; 97.120; 35.240.67

English Version

Building automation, controls and building management - Smart building - Description and aspects

Automatisation, la régulation et la gestion technique du bâtiment - Bâtiments intelligent - Descriptions et aspects

Gebäudeautomation und Gebäudemanagement - Intelligentes Gebäude - Beschreibung und Aspekte

This Technical Report was approved by CEN on 30 June 2024. It has been drawn up by the Technical Committee CEN/TC 247.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. CEN/TR 18081:2024 E

Contents

Page

European foreword

This document (CEN/TR 18081:2024) has been prepared by Technical Committee CEN/TC 247 “Building Automation, Controls and Building Management” the secretariat of which is held by SNV.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

CEN/TC 247, “Building Automation, Controls and Building Management” - in collaboration with CLC/TC 205 “Home and Building Electronic Systems (HBES)” - has prepared this document to create a report in which the view of both CEN/TC 247 as well as CLC/TC 205 on the aspect of smart buildings is documented.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

Introduction

The use of a building changes over its lifespan and adapts to the changing usage and functional expectations of the users regarding desired comfortable shelter, living and/or working space.

This can relate to:

— building structure;

— building operation;

— energy efficiency;

— maintenance and fault prediction;

— comfort;

— convenience;

— health and wellbeing;

— information to occupants;

— energy flexibility and storage.

The goal of integrating building automation control systems is to ensure maximum cost-neutrality and environmental compatibility for the owner over the entire service life of a building. If this goal is fulfilled for a specific building, then this building would be regarded as “smart”.

1 Scope

This document explains the term “smart building”.

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.

EN 13321-1, *Open data communication in building automation, controls and building management — Home and building electronic system — Part 1: Product and system requirements*

EN 14908 (all parts), *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol*

EN 50090 (all parts), *Home and Building Electronic Systems (HBES)*

EN ISO 16484 (all parts), *Building automation and control systems (BACS)*