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STN	**Otvorená dátová komunikácia v automatizácii, riadení a manažérstve budov Sieťový protokol Časť 6: Aplikácia prvkov**	**STN EN 14908-6** 74 7306

Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 6: Application elements

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/23

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EN 14908-6

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English Version

Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 6: Application elements

Réseau ouvert de communication de données pour l'automatisation, la régulation et la gestion technique du bâtiment - Protocole de réseau pour le bâtiment - Partie 6 : Eléments pour l'application

Firmenneutrale Datenkommunikation für die Gebäudeautomation und Gebäudemanagement - Gebäude Netzwerk Protokoll - Teil 6: Anwendungselemente

This European Standard was approved by CEN on 9 October 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 14908-6:2022) has been prepared by Technical Committee CEN/TC 247 “Building Automation, Controls and Building Management”, the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2023 and conflicting national standards shall be withdrawn at the latest by June 2023.

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.

This document supersedes EN 14908-6:2014.

The main changes compared to EN 14908-6:2014 are as follows:

— Adding 11 Standard Network Variables Types – SNVTs;

— Adding 29 Standard Configuration Property Types – SCPTs;

— Adding 5 Standard Enumerations – ENUM;

— Adding 57 Standard Functional Profile Types – SFPTs;

— The wording Master/Slave is replaced with appropriate language.

This document is part of the EN 14908 series, which consists of the following parts:

— EN 14908-1, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 1: Protocol Stack*

— EN 14908-2, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 2: Twisted Pair Communication*

— EN 14908-3, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 3: Power Line Channel Specification*

— EN 14908-4, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 4: IP Communication*

— EN 14908-5, *Open Data Communication in Building Automation, Controls and Building Management Implementation Guideline — Control Network Protocol — Part 5: Implementation*

— EN 14908-6, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 6: Application Elements*

— EN 14908-7, *Open communication in building automation, controls and building management — Control Network Protocol — Part 7: Communication via internet protocols*

— EN 14908-8, *Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 8: Communication using Broadband over Power Line Networks - with internet protocols*

— EN 14908-9, *Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 9: Wireless Communication in ISM bands*

The content of this European Standard covers the data communications used for management, automation/control and field functions.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

Introduction

This document is intended to be used by all involved in design, manufacture, engineering, installation and commissioning activities.

This document specifies the definition of various types of data-transfer containers for carrying temperature, pressure, state, and other forms of data over the protocol defined by EN 14908-1 from any number of devices to any other number of devices, as defined by the limits in EN 14908-1. It also specifies the data types for configuration information, used to define timing, default values, and other data. This document describes a data-file transfer method that may be used for transferring configuration information to and from devices, and specifies the device-interface format that describes the interconnection points of a device.

NOTE The file-transfer mechanism is not exclusively used for loading configuration information into a device and can therefore have other purposes.

This document contributes to the general European policy for energy savings, particularly in the field of the “Energy Performance of Building Directive” and the Construction Products Directive (ER No. 6 “Energy Economy and Heat Retention”).

1 Scope

This document provides mechanisms through which various vendors of building automation, control, and building management systems may exchange information in a standardized way.

This document provides specifications for the Application Elements of Control Network Protocol packets as follows:

— definitions of standardized packet (network-variable) data types;

— definitions of device-interface files;

— definitions of standardized configuration-property types;

— definitions of standardized enumeration types;

— definitions of standardized functional profiles;

— definition of the standardized method of file transfer between devices.

The purpose of this document is to ensure interoperability between various CNP implementations. This document contains all the information necessary to read and interpret the format of data and control information that is used by EN 14908-5. It also defines the device interface for a device as specified, which is necessary to exchange data between various devices from different manufacturers.

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 14908-1, *Open Data Communication in Building Automation, Controls and Building Management — Building Network Protocol — Part 1: Protocol Stack*

EN 14908-2, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 2: Twisted Pair Communication*

EN 14908-3, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 3: Power Line Channel Specification*

EN 14908-4, *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol — Part 4: IP Communication*

EN 14908-5, *Open Data Communication in Building Automation, Controls and Building Management Implementation Guideline — Control Network Protocol — Part 5: Implementation*