ICS 91.140.01, 97.120 SLOVENSKÁ TECHNICKÁ NORMA December 2021

STN	**Otvorená dátová komunikácia v komplexných automatických riadiacich systémoch prevádzky a v manažérstve budov Komunikačný protokol pre sieťovo prepojené riadiace systémy (CNP) Časť 8: Komunikácia prostredníctvom širokopásmového pripojenia cez siete Power Line – s internetovými protokolmi**	**STN EN 14908-8** 74 7306

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

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. 11/21

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English Version

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

Réseau ouvert de communication de données pour l'automatisation, la régulation et la gestion technique du bâtiment - Protocole de contrôle du réseau - Partie 8 : Communication large bande sur les réseaux CPL via les protocoles Internet

Firmenneutrale Datenkommunikation für die Gebäudeautomation und Gebäudemanagement - Steuerungs-Netzwerk-Protokoll - Teil 8: Breitband Kommunikation mit Internetprotokollen über Powerline-Netzwerke

This European Standard was approved by CEN on 8 July 2021.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No. EN 14908-8:2021 E

Contents

Page

European foreword

This document (EN 14908-8:2021) 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of an identical text or by endorsement, at the latest by March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

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 is part of a series of European Standards for open data transmission in building automation, control and in building management systems. The content of this document covers the data communications used for management, automation/control and field functions. This document is based on the American standards EIA/CEA-709.1-B Control Network Protocol Specification.

This document is part of a series of European Standards under the general title *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol*, which comprises the following parts:

— *Part 1: Protocol Stack*

— *Part 2: Twisted Pair Communication*

— *Part 3: Power Line Channel Specification*

— *Part 4: IP-Communication*

— *Part 5: Implementation*

— *Part 6: Application elements*

— *Part 7: Communication via internet protocols*

— *Part 8: Communication using Broadband over Power Line Networks — with internet protocols* (this document)

— *Part 9: Wireless Communication in ISM bands*

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 organisations 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, Turkey and the United Kingdom

Introduction

This document has been prepared to provide mechanisms through which various vendors of building automation, control, and building management systems may exchange information in a standardized way. It defines communication capabilities.

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

1 Scope

This document specifies a communication protocol for networked control systems. The protocol provides peer-to-peer communication for networked control using web-services. This document describes services in layer 1 and layer 2.

The layer 1 (physical layer) specification describes the MAC sub-layer interface to the physical layer. The layer 2 (data link layer), as described in EN 14908-1, is integrated in UDP/IP communication using IPv4 and IPv6 protocols.

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 14908-1:2014, *Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 1: Protocol Stack*

IEEE 1901-2010, *IEEE Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications*

ITU-T G.9905, *Centralized metric-based source routing*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN