Home and Building Electronic Systems (HBES) - Part 4-2: Media independent layers - Transport layer, network layer and general parts of data link layer for HBES Class 1

Home and Building Electronic Systems (HBES) - Part 4-2: Media independent layers - Transport layer, network layer and general parts of data link layer for HBES Class 1

EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA

Käesolev Eesti standard EVS-EN 50090-4-2:2004 sisaldab Euroopa standardi EN 50090-4-2:2003 ingliskeelset teksti. Käesolev dokument on jõustatud 25.05.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 50090-4-2:2004 consists of the English text of the European standard EN 50090-4-2:2003. This document is endorsed on 25.05.2004 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

NATIONAL FOREWORD

Käsitlusala: This part of the EN 50090 specifies the services and protocol in a physical layer independent way for the data link layer and for the network layer and the transport layer for usage in Home and Building Electronic Systems.	**Scope:** This part of the EN 50090 specifies the services and protocol in a physical layer independent way for the data link layer and for the network layer and the transport layer for usage in Home and Building Electronic Systems.

ICS 35.100.05, 97.120

Võtmesõnad:

EUROPEAN STANDARD **EN 50090-4-2**

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English version

Home and Building Electronic Systems (HBES) Part 4-2: Media independent layers - Transport layer, network layer and general parts of data link layer for HBES Class 1

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES)
Partie 4-2: Couches indépendantes des media -
Couches transport, réseau et parties générales de la couche données pour HBES Classe 1

Elektrische Systemtechnik für Heim und Gebäude (ESHG)
Teil 4-2: Medienunabhängige Schicht - Transportschicht, Vermittlungsschicht und allgemeine Teile der Sicherungsschicht für ESHG Klasse 1

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 50090-4-2:2004 E

Contents

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 205, Home and Building Electronic Systems (HBES) with the help of CENELEC co-operation partner Konnex Association (formerly EHBESA).

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50090-4-2 on 2003-12-02.

This European Standard supersedes R205-008:1996.

CENELEC takes no position concerning the evidence, validity and scope of patent rights.

Konnex Association as Cooperating Partner to CENELEC confirms that to the extent that the standard contains patents and like rights, the Konnex Association's members are willing to negotiate licenses thereof with applicants throughout the world on fair, reasonable and non-discriminatory terms and conditions.

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Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights other than those identified above. CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2004-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2006-12-01

EN 50090-4-2 is part of the EN 50090 series of European Standards, which will comprise the following parts:

Part 1: Standardisation structure
Part 2: System overview
Part 3: Aspects of application
Part 4: Media independent layers
Part 5: Media and media dependent layers
Part 6: Interfaces
Part 7: System management
Part 8: Conformity assessment of products
Part 9: Installation requirements

Introduction

This standard specifies the Media independent requirements for the data link layer and the requirements for the network layer and the transport layer for Home and Building Electronic Systems.

This standard provides the communication stack targeted for providing the services specified in EN 50090-3-2 “User Process” and EN 50090-4-1 “Application Layer for HBES Class 1”. It can be used as communication stack on the physical layers as specified in EN 50090-5.

1 Scope

This part of the EN 50090 specifies the services and protocol in a physical layer independent way for the data link layer and for the network layer and the transport layer for usage in Home and Building Electronic Systems

2 Normative references

The following referenced documents are indispensable for the application 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 50090-1 [1)] *Home and Building Electronic Systems (HBES) – Part 1: Standardisation structure*

EN 50090-3-2:2004 *Home and Building Electronic Systems (HBES) – Part 3-2: Aspects of application – User process for HBES Class 1*

EN 50090-4-1:2004 *Home and Building Electronic Systems (HBES) – Part 4-1: Media independent layers – Application layer for HBES Class 1*

EN 50090-5 series *Home and Building Electronic Systems (HBES) – Part 5: Media and media dependent layers*

ISO 7498 series *Information technology - Open Systems Interconnection - Basic reference model*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this part the terms and definitions given in EN 50090-1 and the following apply.

3.1.1
individual address
IA
unique identifier for every device in a network. The individual address is a 2-octet value that consists of an 8-bit subnetwork address and an 8-bit device address

1) At draft stage.