Home and Building Electronic Systems (HBES) - Part 3-3: Aspects of application - HBES Interworking model and common HBES data types

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50090-3-3:2009 sisaldab Euroopa standardi EN 50090-3-3:2009 ingliskeelset teksti.	This Estonian standard EVS-EN 50090-3-3:2009 consists of the English text of the European standard EN 50090-3-3:2009.
Standard on kinnitatud Eesti Standardikeskuse 31.07.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.07.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 29.05.2009.	Date of Availability of the European standard text 29.05.2009.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

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Home and Building Electronic Systems (HBES) - Part 3-3: Aspects of application - HBES Interworking model and common HBES data types

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) - Partie 3-3: Aspects de l'application - Modèle d'inter-fonctionnement des HBES et types de données communes

Elektrische Systemtechnik für Heim und Gebäude (ESHG) - Teil 3-3: Anwendungsaspekte - ESHG-Interworking-Modell und übliche ESHG-Datenformate

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CENELEC

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

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 205, Home and Building Electronic Systems (HBES), joined by the co-operating partner KNX Association.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50090-3-3 on 2008-12-01.

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

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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) 2009-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-12-01

EN 50090-3-3 is part of the EN 50090 series of European Standards, which will comprise the following parts:

Part 1: Standardization 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

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Introduction

Interworking between devices signifies that these products send and receive datagrams and are able to properly understand and react on them. This ability is provided without additional equipment (like translators or gateways).

NOTE Media couplers are needed if different media are used in an installation.

The market requires Interworking for a multi-vendor approach, this is, products from different manufacturers can interwork in a certain application segment or domain as well as across different applications (cross discipline Interworking).

Such an Interworking is only possible if a set of requirements is complied with as defined in an Interworking model. For this, Functional Blocks need to be defined, which in turn specify Datapoints and the communication mechanisms to be used. Such a set of requirements is referred to as "Application Interworking Specifications" (AIS).

AIS allow Interworking independent of the implementation by a manufacturer. Besides the advantages for the user (multi-vendor offer) Interworking also allows a broad OEM market and easy market access for niche-products providers. Furthermore Interworking allows the establishment of a common market infrastructure (i.e. common configuration tool, training, etc.)

1 Scope

This European Standard gives general guidelines and recommendations to ensure interworking between HBES devices made by different manufacturers. It also contains design guidelines for the design of Functional Blocks and new datapoint types, the building blocks of HBES interworking.

In this way, the standard can be used as a basis to design application specifications relative to an Application Domain. If designed and supported by a large group of manufacturers, such application specifications will ensure to end customers a high degree of interoperability between products based on the HBES Communication System of different manufacturers.

This European Standard is used as a product family standard. It is not intended to be used as a stand-alone standard.

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: Standardization 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 50090-4-2: 2004	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

[1)] Under consideration.