

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

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50090-3-3:2009 sisaldab Euroopa standardi EN 50090-3-3:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.07.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 29.05.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 50090-3-3:2009 consists of the English text of the European standard EN 50090-3-3:2009.

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.

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ICS 97.120

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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

**Central Secretariat: Avenue Marnix 17, B - 1000 Brussels**

## 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.

KNX Association as Cooperating Partner to CENELEC confirms that to the extent that the standard contains patents and like rights, the KNX 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) 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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## Contents

Introduction .....	5
1 Scope .....	6
2 Normative references .....	6
3 Terms, definitions and abbreviations .....	7
3.1 Terms and definitions .....	7
3.2 Abbreviations .....	7
4 HBES Interworking model .....	7
4.1 Principles of HBES Interworking .....	11
4.2 Busload .....	12
4.3 Datapoint Type error handling .....	13
4.4 Interpretability of data and data integrity .....	15
5 General Functional Block Design and Implementation Rules .....	15
5.1 Introduction .....	15
5.2 Describe the Application Domain .....	15
5.3 Describe the Application .....	15
5.4 Describe the Functional Block .....	19
5.5 Describing the Datapoint Types .....	29
Annex A (informative) Common HBES data types .....	38
Figures	
Figure 1 – The HBES Interworking Model An Application Domain can contain one or more Applications .....	7
Figure 2 – The HBES Interworking Model An Application Model may contain one or more Functional Blocks .....	8
Figure 3 – Standard representation for Functional Blocks .....	8
Figure 4 – Datapoints indicated in Functional Blocks .....	9
Figure 5 – Functional Blocks grouped in devices and linked .....	9
Figure 6 – Functional Block with 5 Datapoints .....	10
Figure 7 – The information contained in a Datapoint Type definition .....	10
Figure 8 – Example of an Interworking specification .....	11
Figure 9 – Functional Block diagram (Example) .....	20
Figure 10 – Table listing separate datapoints of a functional block .....	21
Figure 11 – Specification form for Inputs and Outputs .....	22
Figure 12 – Specification form for Parameters and Diagnostic Data .....	29
Figure 13 – Example of multi-state datapoint .....	32
Figure 14 – Datapoint Type specification form .....	34
Figure A.1 – Structure of Datapoint Types .....	38
Figure A.2 – December 12, 2006 encoded according DPT_Date in an A_GroupValue_Write-frame (example on TP1) .....	39

Tables

Table 1 – Use of heart-beat..... 12

Table 2 – Authorisation level names ..... 27

Table 3 – Datatypes notation styles ..... 35

Table A.1 – Compatibility rules..... 67

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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 <sup>1)</sup>	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

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<sup>1)</sup> Under consideration.