



SLOVENSKI STANDARD
SIST EN 50090-3-1:1997

01-avgust-1997

Home and building electronic systems (HBES) - Part 3-1: Aspects of application - Introduction to the application structure

Home and Building Electronic Systems (HBES) -- Part 3-1: Aspects of application - Introduction to the application structure

Elektrische Systemtechnik für Heim und Gebäude (ESHG) -- Teil 3-1: Anwendungsaspekte - Einführung in die Anwendungsstruktur

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) -- Partie 3-1: Aspects de l'application - Introduction à la structure d'application

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Ta slovenski standard je istoveten z: EN 50090-3-1:1994

ICS:

97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use
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en

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EUROPEAN STANDARD

EN 50090-3-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1994

ICS 97.120

Descriptors: Home and building electronic systems (HBES), home electronic systems, open systems interconnection (OSI), HBES reference model, HBES function, application layer, application object, specifications

English version

**Home and Building Electronic Systems (HBES)
Part 3-1: Aspects of application
Introduction to the application structure**

Systemes électroniques pour les foyers
domestiques et les bâtiments (HBES)
Partie 3-1: Aspects de l'application
Introduction à la structure d'application

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard has been prepared by CENELEC Technical Committee TC 105, Home and Building Electronic Systems (HBES).

It was submitted to the unique acceptance procedure and was approved by CENELEC as EN 50090-3-1 on 1994-05-15.

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) 1995-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1995-07-01

EN 50090-3-1 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: Transport layer and network layer

Part 5: Media and media dependant layers

Part 6: Interfaces

Part 7: System management

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1 Scope

This European Standard is part 3-1 of the series of standards EN 50090 on Home and Building Electronic Systems (HBES). It

- gives an overview of the application related user process as defined in EN 50090-3-2 and the Application Layer (see ENV 50090-3-3) .
- is founded on the general structure defined in EN 50090-2-1, which is based on the basic reference model for the interconnection of open systems (OSI).

NOTE: EN 50090-3-2 is currently a draft, ENV 50090-3-3 is currently under consideration within TC 105.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 27498	Information processing systems - Open systems interconnection - Basic reference model (ISO 7498:1984 + A1:1987)
EN 50090-2-1	Home and Building Electronic Systems (HBES) - Part 2-1: System overview - Architecture https://standards.iteh.ai/catalog/standards/sist/97709cb7-7d49-42de-94c7-20706103881e/en-50090-2-1-1997
EN 50090-3-2	Home and Building Electronic Systems (HBES) - Part 3-2: Aspects of application - User process
ENV 50090-3-3	Home and Building Electronic Systems (HBES) - Part 3-3: Aspects of application - Application layer

3 Definitions

For the purposes of this standard the following definitions apply:

3.1 Definitions from other sources

3.1.1 Definitions from EN 50090-2-1

Application object, see EN 50090-2-1, 3.2.6.

User process, see EN 50090-2-1, 3.2.9.

3.1.2 Definitions from EN 27498

Open systems interconnection, OSI

user element

3.2 Additional definitions

3.2.1 **data set:** A data structure corresponding to well defined types of information.

3.2.2 **HBES-function:** A set of operations performed on data set(s).

NOTE: If the context makes it clear that a function is an HBES-function, the HBES can be omitted.

4 Application structure

4.1 Overview

As described in EN 50090-2-1 the application process is divided in two main parts: the user process (see EN 50090-3-2) and the application layer (see ENV 50090-3-3).

Because the HBES device application process is partly embedded in the OSI environment and partly outside it, a distinction has to be made between OSI and not OSI related parts.

4.2 Application objects

The application process consists of application objects. Application objects are data sets with their corresponding HBES-functions.

Application objects located in the user process are called "user objects". Application objects located in the user element are called "communication objects". They connect the user process to the communication part.

Figure 1 shows the above mentioned structure.

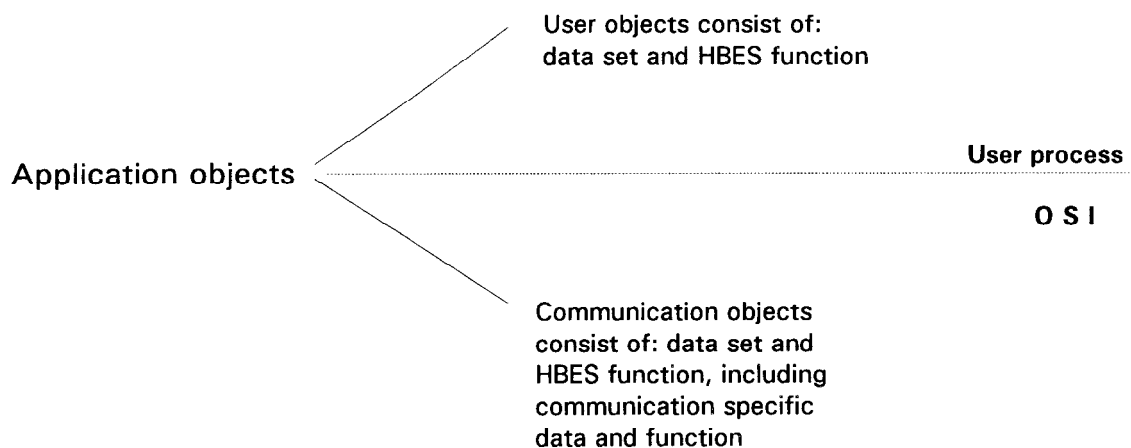
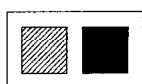
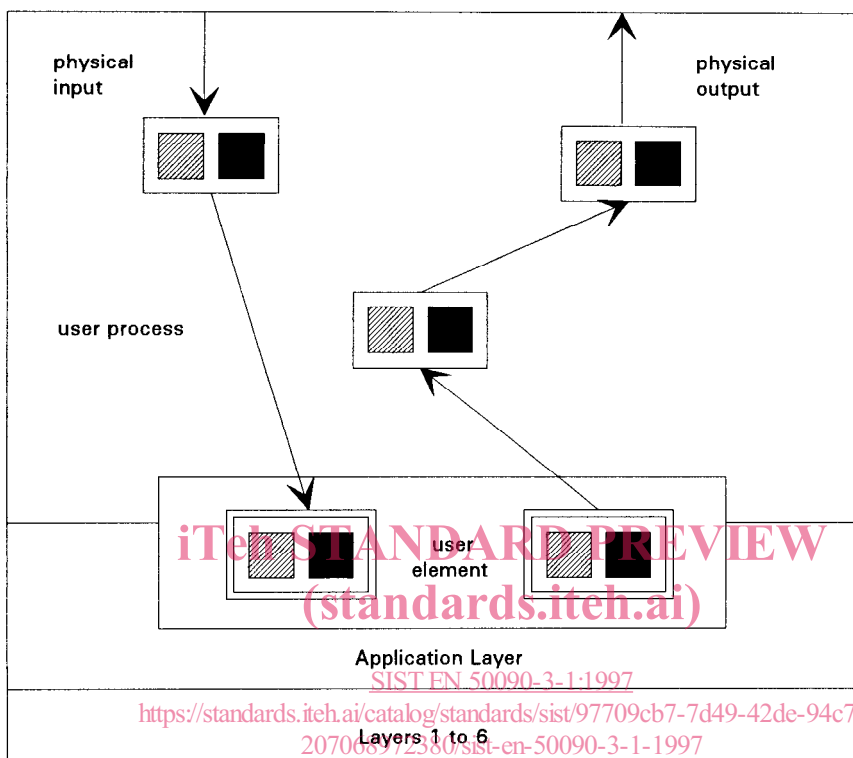


Figure 1: Application structure

Figure 2 shows some possible relationships between these objects.



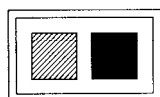
User object



Data set



HBES-function



Communication object

Figure 2: Possible information flow