

SLOVENSKI STANDARD

oSIST prEN ISO 16484-1:2009

01-junij-2009

Avtomatizacija stavb in sistemi za regulacijo - 1. del: Specifikacija projekta in uporaba (ISO/DIS 16484-1:2009)

Building automation and control systems (BACS) - Part 1: Project specification and implementation (ISO/DIS 16484-1:2009)

Systeme der Gebäudeautomation (GA) - Teil 1: Projektangaben und -einbindung (ISO/DIS 16484-1:2009)

Systèmes d'automatisation et de gestion technique du bâtiment (BACS) - Partie 1: Spécification et mise en oeuvre du projet (ISO/DIS 16484-1:2009)

Ta slovenski standard je istoveten z: prEN ISO 16484-1

ICS:

35.240.99	Wj [!æ} ã\ ^Á^zã^ÁVÁ æ ã!~ * ã@ [ã! [ã@	IT applications in other fields
97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use

oSIST prEN ISO 16484-1:2009

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN ISO 16484-1

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English Version

**Building automation and control systems (BACS) - Part 1:
Project specification and implementation (ISO/DIS 16484-
1:2009)**

Systèmes d'automatisation et de gestion technique du
bâtiment (BACS) - Partie 1: Spécification et mise en oeuvre
du projet (ISO/DIS 16484-1:2009)

Systeme der Gebäudeautomation (GA) - Teil 1:
Projektangaben und -einbindung (ISO/DIS 16484-1:2009)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 247.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (prEN ISO 16484-1:2009) has been prepared by Technical Committee CEN/TC 247 "Building Automation, Controls and Building Management", the secretariat of which is held by SNV, in collaboration with Technical Committee ISO/TC 205 "Building environment design".

This document is currently submitted to the parallel Enquiry.

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DRAFT INTERNATIONAL STANDARD ISO/DIS 16484-1

ISO/TC 205

Secretariat: ANSI

Voting begins on
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Building automation and control systems (BACS) —

Part 1:

Project specification and implementation

*Systèmes d'automatisation et de gestion technique du bâtiment (BACS) —**Partie 1: Spécification et mise en oeuvre du projet*iTeh STANDARD PREVIEW
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ICS 91.040.01

ISO/CEN PARALLEL PROCESSING

This draft has been developed within the European Committee for Standardization (CEN), and processed under the **CEN-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

Conformément aux dispositions de la Résolution du Conseil 15/1993, ce document est distribué en version anglaise seulement.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 16484-1 was prepared by Technical Committee ISO/TC 205, *Building environment design*, Subcommittee SC , and by Technical Committee CEN/TC 247, *Building automation, controls and building management* in collaboration.

This second/third/... edition cancels and replaces the first/second/... edition (), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

ISO 16484 consists of the following parts, under the general title *Building automation and control systems (BACS)*:

- *Part 1: Project specification and implementation*
- *Part 2: Hardware*
- *Part 3: Functions*
- *Part 4: Applications*
- *Part 5: Data communication - Protocol*
- *Part 6: Data communication - Conformance testing*
- *Part 7: Impact on energy performance of buildings*

Introduction

This series of standards is intended for design of new buildings and retrofit of existing buildings for an acceptable indoor environment, practical energy conservation, and efficiency.

The application of this series of standards for BACS is envisaged as follows:

- The environmental design for all building types requires complex methods for automation and control. The functional integration of services other than heating, ventilating, and air-conditioning (HVAC) is a general task for all parties employed to develop an integrated multi-application system. The Integration comprises, for example lighting and electric power distribution control, security control, transportation, maintenance management, or facilities management. This system integration allows the user to take advantage of synergies between the different applications. This standard will give guidance to architects, consultants, and contractors as well as to users on how to share such resources;
- the innovation cycles between devices, systems, and networks vary. To make it possible to add and to change existing devices, and extend the building automation and control network, several interfaces both proprietary and standardized are defined between the BACS network and the other systems. A manufacturer can design a product, both to meet his specific marketing objectives and to give the option to integrate that special device into a multi-application BACS. Interfaces are also defined in appropriate parts of this standard along with the necessary communications protocol and conformance test required to support the inter-working of devices;
- a manufacturer, a systems house, or an electrical or mechanical contractor can assemble an implementation of a building automation and control system;
- the application of this standard is not to standardize the hardware and software design or the architecture of a system, but to define the process for the creation of project specifications, where functionality and the quality of the solution are clearly defined.

The purpose of this series of standards is intended for use by those involved in the design, manufacture, engineering, installation, commissioning, operational maintenance and training of BACS when contracted, i.e.:

- As a guide to the terminology of the building automation and control trade. Unambiguous terminology is required for a complete and accurate conveyance of the intent and details of this standard;
- in product development, to avoid unnecessary duplication of function or terminology, but should not place a restraint on the evolution of new products, systems or applications;
- as a basis for interfacing products and systems. In order to interoperate, the elements of a BACS require a unified data communication protocol and information model;
- as a basis for drawing up a project specification for the procurement of building automation and control products for systems suppliers and customers;
- as a code of practice for expertly commissioning prior to handover of a system;
- by educational establishments wishing to train people in the field of building automation and control systems.

This entire series of BACS standards consists of the following contents:

Part 1: Project specification and implementation (refer to the scope of this part)

Part 2: Hardware

Part 2 specifies the requirements for the hardware to perform the tasks within a BACS. It provides the terms, definitions, and abbreviations for the understanding of Part 2 and Part 3.