



SLOVENSKI STANDARD SIST EN ISO 16484-1:2024

01-april-2024

Sistemi za avtomatizacijo in regulacijo stavb - 1. del: Specifikacija projekta in izvedba (ISO 16484-1:2024)

Building automation and control systems (BACS) - Part 1: Project specification and implementation (ISO 16484-1:2024)

Systeme der Gebäudeautomation (GA) - Teil 1: Projektplanung und -ausführung (ISO 16484-1:2024)

Systèmes de gestion technique du bâtiment (SGTB) - Partie 1: Spécifications et mise en oeuvre d'un projet (ISO 16484-1:2024)

Ta slovenski standard je istoveten z: EN ISO 16484-1:2024

[SIST EN ISO 16484-1:2024](https://standards.sist.net/catalog/standards/sist/78b76ccc-1c71-4d61-9982-2b747fcd55a4/sist-en-iso-16484-1-2024)

ICS:

35.240.67	Uporabniške rešitve IT v gradbeništvu	IT applications in building and construction industry
97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use

SIST EN ISO 16484-1:2024

en,fr,de

EUROPEAN STANDARD

EN ISO 16484-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2024

ICS 91.040.01; 35.240.67

Supersedes EN ISO 16484-1:2010

English Version

Building automation and control systems (BACS) - Part 1: Project specification and implementation (ISO 16484- 1:2024)

Systèmes de gestion technique du bâtiment (SGTB) -
Partie 1: Spécifications et mise en œuvre d'un projet
(ISO 16484-1:2024)

Systeme der Gebäudeautomation (GA) - Teil 1:
Projektplanung und -ausführung (ISO 16484-1:2024)

This European Standard was approved by CEN on 23 December 2023.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 16484-1:2024) has been prepared by Technical Committee ISO/TC 205 "Building environment design" in collaboration with Technical Committee CEN/TC 247 "Building Automation, Controls and Building Management" the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2024, and conflicting national standards shall be withdrawn at the latest by July 2024.

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

This document supersedes EN ISO 16484-1:2010.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Endorsement notice

The text of ISO 16484-1:2024 has been approved by CEN as EN ISO 16484-1:2024 without any modification.

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International Standard

ISO 16484-1

Building automation and control systems (BACS) —

Part 1: Project specification and implementation

Systemes de gestion technique du bâtiment (SGTB) —

Partie 1: Spécifications et mise en œuvre d'un projet

**Second edition
2024-01**

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ISO 16484-1:2024(en)

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Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 205, *Building environment design*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 247, *Building Automation, Controls and Building Management*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 16484-1:2010), which has been technically revised.

The main changes are as follows:

- updating of normative references;
- updating of terms and definitions;
- mention of cyber security measures and wireless communication.

A list of all parts in the ISO 16484 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO 16484-1:2024(en)

Introduction

The ISO 16484 series is aimed at the design of new buildings and the retrofitting of existing buildings for an acceptable indoor environment, practical energy conservation and efficiency.

The ISO 16484 series is applicable to building automation and control systems (BACS), as follows:

- The environmental design for all building types requires complex methods of 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. The ISO 16484 series gives guidance to architects, consultants and contractors as well as guidance to users on how to share such resources.
- The innovation cycles between devices, systems and networks vary. In order 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 their 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 the ISO 16484 series along with the necessary communications protocol and conformance test required to support the interworking of devices.
- A manufacturer, a systems house, or an electrical or mechanical contractor can assemble the implementation of a building automation and control system.
- The application of the ISO 16484 series 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 the functionality and the quality of the solution are clearly defined.

The ISO 16484 series 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 guideline 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 the ISO 16484 series;
- in product development, to avoid unnecessary duplication of function or terminology, but not necessarily placing 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 procurement;
- as a code of practice for expert commissioning;
- by educational establishments wishing to train people in the field of BACS.