

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Building intercom systems –
Part 3-1: Application guidelines – General**

**Systèmes d'interphone de bâtiment –
Partie 3-1: Lignes directrices d'application – Généralités**



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BUILDING INTERCOM SYSTEMS –**Part 3-1: Application guidelines – General**

FOREWORD

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International Standard IEC 62820-3-1 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
79/599/FDIS	79/600/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62820 series, published under the general title *Building intercom systems*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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INTRODUCTION

This part 3-1 of the IEC 62820 series of standards provides application guidelines for building intercom systems. The other parts of this series of standards are as follows:

Part 1-1: System requirements – General

Part 1-2: System requirements – Building intercom systems using the Internet Protocol (IP)

Part 2: Requirements for advanced security building intercom systems (ASBIS)

Part 3-1: Application guidelines – General

Part 3-2: Application guidelines – Advanced security building intercom systems (ASBIS)

This part describes general recommendations for planning, installation, operation, maintenance and documentation for the application of building intercom systems. The recommendations of part 3-1 are specifically intended for large-scale systems.

Where an installation is intended to meet the requirements of IEC 62820-2, the recommendations of IEC 62820-3-2 should also be applied.

The implementation of building intercom systems (BIS) should be in accordance with the following sequence:

- system planning and design;
- system installation;
- commissioning and system handover;
- system operation and maintenance.

Separate guidance is provided for each activity along with recommendations for documentation needed. A brief description of each clause covering the activities is provided below:

System planning and design: this clause is intended to assist the designer with the selection of the type of BIS and system components for the BIS which best meet the BIS implementation and user requirement.

System installation: this clause is intended to help those responsible for installing BIS by identifying issues that should be considered prior to start of installation and during the installation of the system in order to ensure the BIS is implemented correctly as specified during system planning.

Commissioning and system handover: this clause provides guidance to ensure that the functions required in the system planning are obtained and that the system owner is provided with the necessary documentation, records and operating instructions during the handover of the BIS.

System operation and maintenance: this clause includes the guidelines of the implementation to ensure the system is operated correctly and maintained adequately.

BUILDING INTERCOM SYSTEMS –

Part 3-1: Application guidelines – General

1 Scope

This part of IEC 62820 series gives guidelines for planning, installation, commissioning, operation and maintenance of Building Intercom Systems (BIS), for use in security applications. The different technical requirements for BIS are specified in IEC 62820-1-1 and IEC 62820-1-2.

The objectives of this document are to:

- a) provide a framework to assist system integrators, installers, consultant engineers and system owners in establishing their requirements;
- b) assist specifiers and system owners in determining the appropriate equipment required for a given application.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 62820-1-1:2016, *Building intercom systems – Part 1-1: System requirements – General*

IEC 62820-1-2, *Building intercom systems – Part 1-2: System requirements – Building intercom systems using the Internet Protocol (IP)*

IEC 62820-2, *Building intercom systems – Part 2: Requirements for advanced security building intercom systems (ASBIS)*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1.1

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3.1.2

IP system

building intercom systems that use the Internet Protocol (IP)