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OSA 11-2: ELEKTROONILISTE LÄBIPÄÄSU  
KONTROLLSÜSTEEMIDE STANDARD. RAKENDUSJUHISED**

**Alarm and electronic security systems - Part 11-2:  
Electronic access control systems - Application  
guidelines (IEC 60839-11-2:2014)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 60839-11-2:2015 sisaldab Euroopa standardi EN 60839-11-2:2015 ja selle paranduse AC:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 60839-11-2:2015 consists of the English text of the European standard EN 60839-11-2:2015 and its corrigendum AC:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.  Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 17.04.2015	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.  Date of Availability of the European standard is 17.04.2015.
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English Version

**Alarm and electronic security systems - Part 11-2: Electronic  
access control systems - Application guidelines  
(IEC 60839-11-2:2014)**

Systèmes d'alarme et de sécurité électroniques - Partie 11-  
2: Systèmes de contrôle d'accès électronique - Lignes  
directrices d'application  
(IEC 60839-11-2:2014)

Alarmanlagen - Teil 11-2: Elektronische  
Zutrittskontrollanlagen - Anwendungsregeln  
(IEC 60839-11-2:2014)

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

This document (EN 60839-11-2:2015) consists of the text of IEC 60839-11-2:2014 prepared by IEC/TC 79 "Alarm and electronic security systems".

The following dates are fixed:

- latest date by which the document has to be implemented (dop) 2016-04-13  
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-04-13

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60950-1	NOTE	Harmonized as EN 60950-1.
IEC 61000-6-1	NOTE	Harmonized as EN 61000-6-1.
IEC 61000-6-3	NOTE	Harmonized as EN 61000-6-3

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Alarm and electronic security systems –  
Part 11-2: Electronic access control systems – Application guidelines**

**Systèmes d'alarme et de sécurité électroniques –  
Partie 11-2: Systèmes de contrôle d'accès électronique – Lignes directrices  
d'application**



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Alarm and electronic security systems –  
Part 11-2: Electronic access control systems – Application guidelines**

**Systèmes d'alarme et de sécurité électroniques –  
Partie 11-2: Systèmes de contrôle d'accès électronique – Lignes directrices  
d'application**

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**ALARM AND ELECTRONIC SECURITY SYSTEMS –****Part 11-2: Electronic access control systems –  
Application guidelines**

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FDIS	Report on voting
79/476/FDIS	79/489/RVD

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

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

A list of all parts in the IEC 60839 series, published under the general title *Alarm and electronic security systems*, can be found on the IEC website.

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## INTRODUCTION

This standard is part of the IEC 60839 series, written to include the following parts:

Part 11-1: Electronic access control systems – System and components requirements

Part 11-2: Electronic access control systems – Application guidelines

This part of IEC 60839 describes the general requirements for planning, installation, operation, maintenance and documentation for the application of electronic access control systems (EACS).

The performance of the EACS is determined by the security grades allocated to the access points. A risk assessment that identifies the risks and perceived threats should first be carried out in order to establish the appropriate security grades.

Four security grades are available based upon the knowledge and tools available to a person intent upon gaining unauthorised access and the type of application, taking into account specific organizational aspects and the value of the assets.

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

System planning: this section is intended to assist the designer with the selection of an electronic access control system (EACS) that provides the control of access and security integrity commensurate with the value of the assets requiring protection and the associated risks. See Clause 7.

System design should minimise potential vulnerabilities that could be exploited to circumvent the access control measures. It is recommended that safeguards are incorporated to give early warning of attempts to circumvent the access control measures. See 7.3.

System installation: this section is intended to help those responsible for installing the EACS by identifying issues which should be considered prior to commencing the installation and during the installation of the system in order to ensure the EACS is correctly implemented as specified during system planning. See Clause 8.

Commissioning and system handover: this section provides guidance to ensure the level of performance required in the system planning is obtained and that the end user is provided with the necessary documentation, records and operating instructions during the handover of the EACS. See Clause 9.

System operation and maintenance: includes information regarding the responsibilities of the end user of the EACS to ensure the system is operated correctly and adequately maintained. It covers inspection, service and the use of remote diagnostics in order that the level of performance determined during the system planning stages can be maintained. See Clause 10.

## ALARM AND ELECTRONIC SECURITY SYSTEMS –

### Part 11-2: Electronic access control systems – Application guidelines

#### 1 Scope

This part of IEC 60839 defines the minimum requirements and guidance for the installation and operation of electronic access control systems (EACS) and/or accessory equipment to meet different levels of protection.

This standard includes requirements for planning, installation, commissioning, maintenance and documentation for the application of EACS installed in and around buildings and areas. The equipment functions are defined in the IEC 60839-11-1.

When the EACS includes functions relating to hold-up or the detection of intruders, the requirements in standards relating to intrusion and hold-up are also applicable.

This standard provides application guidelines intended to assist those responsible for establishing an EACS to ascertain the appropriate design and planning of the EACS, both in terms of levels of protection and levels of performance necessary to provide the degree of access control and protection considered appropriate for each installation. This is achieved by scaling or classifying the features of electronic access control systems related to the security functionality (e.g. recognition, access point actuation, access point monitoring, duress signaling and system self-protection) in line with the known or perceived threat conditions.

This standard does not cover the methods and procedures for conducting a risk assessment.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60839-11-1:2013, *Alarm and electronic security systems – Part 11-1: Electronic access control systems – System and components requirements*

#### 3 Terms and definitions

For the purposes of this document the terms and definitions given in IEC 60839-11-1, as well as the following, apply.

##### 3.1

##### **area zone**

part of a protected area which has its own set of access levels

Note 1 to entry: It may have a different security grade than other area zones within the same protected area.