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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Alarm and electronic security systems RD PREVIEW Part 11-1: Electronic access control systems – System and components requirements

Systèmes d'alarme et de sécurité électroniques Partie 11-1: Systèmes de contrôle d'accès électronique – Exigences système et exigences concernant les composants





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Edition 1.0 2013-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Alarm and electronic security systems RD PREVIEW Part 11-1: Electronic access control systems - System and components requirements

IEC 60839-11-1:2013

Systèmes d'alarme/et de sécurité électroniques 8-83-255c-401b-9f7a-Partie 11-1: Systèmes de contrôle d'accès électronique – Exigences système et exigences concernant les composants

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE



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<u>IEC 60839-11-1:2013</u> https://standards.iteh.ai/catalog/standards/sist/e88c8a83-255c-401b-9f7af80b6b3c6077/iec-60839-11-1-2013

# INTERNATIONAL ELECTROTECHNICAL COMMISSION

# ALARM AND ELECTRONIC SECURITY SYSTEMS -

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

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International Standard IEC 60839-11-1 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

The text of this standard is based on the following documents:

| FDIS        | Report on voting |
|-------------|------------------|
| 79/410/FDIS | 79/416/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.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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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 functionalities of electronic access control systems (EACS) for use in security applications. The design, planning, installation, operation, and maintenance are part of the application guidelines in IEC 60839-11-2<sup>1</sup>. The risk analysis is not part of this standard and the risk levels are for informational purposes only.

An electronic access control system consists of one or more components that when interconnected meet the functionality criteria stated in this standard.

This standard defines different security grades and the functionalities of the access control system associated with each of these grades. It includes also the minimum environmental and EMC compliance criteria as applicable for components of the electronic access control system in every grade.

When a part of an electronic access control system (e.g. access point interface) forms a part of an alarm system (intrusion, hold-up, VSS [Video Surveillance Systems], etc.) that part shall also fulfil the relevant requirements of the applicable JEC standards. Functions additional to the mandatory functions specified in this standard may be included in the electronic access control system providing they do not prevent the requirements of this standard from being met.

This International standard also applies to access control systems sharing means of recognition, detection, triggering, interconnection, control, communication, alert signalling and power supplies with other applications. The operation of an access control system should not be adversely influenced by other applications: -60839-11-1-2013

An electronic access control system may consist of any number of access points. This standard addresses the security grade classification for each access point.

Compliance of the individual component parts of the electronic access control system can be assessed to this standard provided all relevant requirements are applied.

The specific requirements for access point actuators, such as electric door openers, electronic locks, turnstiles and barriers are included in other standards.

<sup>&</sup>lt;sup>1</sup> Under consideration.

# ALARM AND ELECTRONIC SECURITY SYSTEMS -

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

#### 1 Scope

This part of IEC 60839 specifies the minimum functionality, performance requirements and test methods for electronic access control systems and components used for physical access (entry and exit) in and around buildings and protected areas. It does not include requirements for access point actuators and sensors.

This standard is not intended to cover requirements for off premise transmission associated with intrusion or hold up alarm signals.

This standard applies to electronic access control systems and components intended to be used in security applications for the granting of access and includes requirements for logging, identification and control of information.

The standard comprises the following: NDARD PREVIEW

- A conceptual model and system architecture.
- Criteria covering:
  - classification based on performance functionalities and capabilities;
  - access point interface requirements; tandards/sist/e88c8a83-255c-401b-9f7a-•
  - 60839-11-1-2013 indication and annunciation requirements (display, alert, logging);
  - duress signalling and overriding;
  - recognition requirements;
  - system self-protection requirements;
  - communication between the component parts of the electronic access control system and with other systems.
- Requirements for environmental conditions (indoor/outdoor use) and electromagnetic compatibility.
- Test methods.

#### 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 60068-1, Environmental testing – Part 1: General and guidance

IEC 60529, Degrees of protection provided by enclosures (IP Code)

IEC 62262, Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

IEC 62599-1, Alarm systems – Part 1: Environmental test methods

IEC 62599-2, Alarm systems – Part 2: Electromagnetic compatibility –Immunity requirements for components of fire and security alarm systems

IEC 62642-1, Alarm systems – Intrusion and hold-up systems – Part 1: System requirements

IEC 62642-6, Alarm systems – Intrusion and hold-up systems – Part 6: Power supplies

# 3 Terms and definitions

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

# 3.1

# abnormal status

deviation from the expected mode of operation

3.2

#### access physical access

action of entering into (or exiting from) a security controlled area

# 3.3 **iTeh STANDARD PREVIEW**

# controller (standards.iteh.ai)

part of an access control system that interfaces with readers, locking devices and sensing devices, making a decision to grant or deny access through a portal

# 3.4

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# access decision

action of comparing information with pre-set rules to determine whether to grant or deny access

# 3.5

# access level

set of rules used to determine where and when a credential has authorized access to one or more portals and which may include special passage conditions such as specific portal allowed open times

# 3.6

# access point

# portal

physical entrance/exit at which access can be controlled by a door, turnstile or other secure barrier

# 3.7

# access point actuation

# portal actuation

function of an electronic access control system related to the releasing or securing of a portal according to pre-set rules and conditional on the access rights of users

# 3.8

# access point overriding

# portal actuation overriding

action of issuing a manual command to bypass the pre-configured mode of operation (i.e. release/secure/block) of an access point

# access point actuator

portal actuator part of an access control system that interfaces to an access control unit releasing and securing a portal according to pre-set rules

# 3.10

# access point forced open portal forced open

alert signal generated when an access point is opened without access being granted

# 3.11

# access point interface portal interface

device or circuitry which controls releasing and securing of an access point

# 3.12

# access point status change

# portal status change

event initiated by the change of an access point either from locked to unlocked or from unlocked to locked

# 3.13

# access point locking device

portal locking device

assembly associated with the access point, which performs the function of holding an access point in the closed position and capable of releasing the access point in accordance with preset rules

# 3.14

IEC 60839-11-1:2013

access point openhtime tandards.iteh.ai/catalog/standards/sist/e88c8a83-255c-401b-9f7aportal open time f80b6b3c6077/iec-60839-11-1-2013

maximum time an access point door may be held open after access is granted and before an access point opened too long alert is generated

# 3.15

# access point opened too long alert portal opened too long alert

signal generated when an access point open time is exceeded after access is granted

#### 3.16 access point release portal release

signal to the access point locking device that access has been granted

# 3.17

# access point sensor

# portal sensor

electrical component used to monitor the open or closed status of an access point, or locked/unlocked status of a locking device, or the secure/unsecure status of an electromagnetic lock or armature plate

# 3.18

# access request

reading of a credential at a portal initiating the decision process for granting entry to or exit from the area controlled by the portal

Note 1 to entry: See request-to-exit device.

#### access request response time

time required by the system to react to an access request from the correct presentation of the credential until the activation of the responding device

Note 1 to entry: Access request response time replaces the term authentication time.

# 3.20

# accessory equipment

any component of an electronic access control system other than the access control unit

# 3.21

# alarm

<access control system> condition requiring human assessment or intervention.

Note 1 to entry: Often used in electronic access control system in the sense of alert.

# 3.22

#### alert

functionality of an electronic access control system related to the activation of an indicator to prompt human assessment

# 3.23

# alert at the portal

visual and or audible signal at the portal prompting action to close the opened access point/portal and terminate the alert condition

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# 3.24

#### alert inhibition by-passing

IEC 60839-11-1:2013

system function preventing an event/from generating/an alert-255c-401b-9f7a-

f80b6b3c6077/iec-60839-11-1-2013

Note 1 to entry: The alert inhibition event may or may not be logged.

Note 2 to entry: The alert inhibition is manually enabled/disabled by the system operator portal by portal.

# 3.25

# ancillary device

piece of equipment for supplementary control purposes designed to be attached or added to an electronic access control system by qualified service personnel and which will not prevent the basic access control system requirements from being met

# 3.26

# annunciation

presentation of the information to users, management or other systems, achieved by the DISPLAY, ALERT and LOGGING functionalities of an electronic access control system

# 3.27

# anti-passback

operating mode which requires user validation when leaving a security controlled area in order to be able to re-enter and vice versa

Note 1 to entry: Also refer to hard anti-passback, soft anti-passback, global anti-passback, and timed anti-passback.

# 3.28

# area controlled anti-passback

operating mode which requires the user to be present in a designated security controlled area in order to be able to enter another security controlled area

# anti-passback overriding anti-passback disabling system feature disabling the anti-passback

3.30

# anti-tailgating

function which prevents or detects the attempt of two or more persons or entities to gain access using only one set of credentials

# 3.31

armature plate

metal plate designed for use with an electromagnetic lock

# 3.32

# authentication

process used to verify the integrity of the recognition of credentials

# 3.33

biometrics

# biometric, adj

any measurable, unique physiological characteristic or personal trait that is used as a credential to recognize and verify the identity of an individual's dynamics

EXAMPLE: Biometrics includes but is not limited to fingerprint, hand or face geometry, retinal/eye, face, voice, signature or keyboarding dynamics.

# (standards.iteh.ai)

# 3.34

# blocked access

passage through an access point is prevented even when valid credentials are presented https://standards.iteh.a/catalog/standards/sist/e88c8a83-255c-401b-9f7af80b6b3c6077/iec-60839-11-1-2013

# 3.35

buffered events temporarily stored events pending transmission for further processing

# 3.36 card type of token

3.37 cause of denial rationale for access denied

EXAMPLE: Causes of denial include: access privilege not including the particular portal, the particular time period, the particular day, the particular holiday, the particular facility code; memorized information incorrect or not provided in time; anti-passback violation; credential expired, not effective or not programmed in the system.

# 3.38

# component

any part of an electronic access control system

EXAMPLE: Includes access control units, readers, access point actuators, access point sensors, keypads, request-to-exit devices, and any related subassembly.

# 3.39

# configurable

characteristic of an electronic access control system function to be enabled and disabled or system parameter values to be modified as permitted by pre-set rules

#### configuration

process or the result of enabling/disabling systems functions and/or changing parameter values as allowed by pre-set rules

### 3.41

#### configuration mode

state of the access control unit during which the supported system functions can be enabled/disabled or parameters values can be set/changed as required

# 3.42

#### credential

information either memorized or held within a token

EXAMPLE: The information includes a biometric image used to identify an individual to an access control system in order to authenticate a user

# 3.43

#### credential forgive

command which re-enables a credential that has violated the anti-passback rules

Note 1 to entry: See forgive and global forgive.

#### 3.44

3.45

#### credential suspend

function of an electronic access control system allowing the temporary invalidation of a credential

# (standards.iteh.ai)

Note 1 to entry: It is applied on a credential by credential basis, usually in situations when credentials have been lost. IEC 60839-11-1:2013

> https://standards.iteh.ai/catalog/standards/sist/e88c8a83-255c-401b-9f7af80b6b3c6077/iec-60839-11-1-2013

# credential trace

function which tracks the movement, in real time, of specific credentials (personal identification numbers, tokens or biometrics) in and out of portals.

Note 1 to entry: Programmed by the system manager the function will cause an alert, log or display on every use of a particular credential (personal identification number, token or biometrics) at any portal as defined by the system manager.

# 3.46

#### credential usage counter

function used for parking areas and other special applications, which counts the number of uses and determines when the credential expires

# 3.47

#### data authentication

process used to verify the integrity of transmitted data

Note 1 to entry: Data integrity exists as long as accidental or malicious destruction, modification or removal does not occur.

# 3.48

# data entry system validation

system administrator notification of system acceptance/rejection of individual data entered during programming mode

# 3.49

#### deadbolt

locking device that extends and retracts a bolt using an electrical, hydraulic or pneumatic force