SLOVENSKI STANDARD
SIST EN 60839-11-32:2017

01-junij-2017

Alarmni in elektronski varnostni sistemi - 11-32. del: Elektronski sistemi nadzora dostopa - IP interoperabilnost na osnovi spletnih storitev - Specifikacija nadzora dostopa

Alarm and electronic security systems - Part 11-32: Electronic access control systems - IP interoperability implementation based on Web services - Access control specification

Ta slovenski standard je istoveten z: EN 60839-11-32:2017

ICS:

13.320 Alarmni in opozorilni sistemi Alarm and warning systems

SIST EN 60839-11-32:2017 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60839-11-32

March 2017

ICS 13.320

English Version

Alarm and electronic security systems - Part 11-32: Electronic access control systems - Access control monitoring based on Web services (IEC 60839-11-32:2016)

Systèmes d'alarme et de sécurité électroniques - Partie 11-32: Systèmes de contrôle d'accès électronique - Commande de contrôle d'accès en fonction des services Web (IEC 60839-11-32:2016)

Alarmanlagen - Teil 11-32: Elektronische Zutrittskontrollanlagen - IP Interoperabilität auf Basis von Webservices - Spezifikation der Zutrittskontrolle (IEC 60839-11-32:2016)

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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 CENELEC 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 CENELEC 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 Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 79/523/CDV, future edition 1 of IEC 60839-11-32, prepared by IEC/TC 79 "Alarm and electronic security systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60839-11-32:2017.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2017-09-29
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-12-29

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The text of the International Standard IEC 60839-11-32:2016 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60839-11-31	NOTE Harmonized as EN 60839-11-31.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

Publication	Year	Title	EN/HD	Year
IEC 60839-11-1	-	Alarm and electronic security systems - Part 11-1: Electronic access control systems - System and components requirements	EN 60839-11-1	-
IEC 60839-11-2	-	Alarm and electronic security systems - Part 11-2: Electronic access control systems - Application guidelines	EN 60839-11-2	-

IEC 60839-11-32

Edition 1.0 2016-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Alarm and electronic security systems – Part 11-32: Electronic access control systems – Access control monitoring based on Web services

Systèmes d'alarme et de sécurité électroniques – Partie 11-32: Systèmes de contrôle d'accès électronique – Commande de contrôle d'accès en fonction des services Web

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 13.320

ISBN 978-2-8322-3779-3

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ALARM AND ELECTRONIC SECURITY SYSTEMS –

Part 11-32: Electronic access control systems – Access control monitoring based on Web services

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60839-11-32 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

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

CDV	Report on voting
79/523/CDV	79/547/RVC

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.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

This document makes it possible to build an alarm and electronic security system with clients, typically a monitoring console, and devices, typically an access control unit, from different manufacturers using common and well defined interfaces.

This document specifies only the data and control flow between a client and the services without reference to any physical device as the services required to implement a compliant electronic access control system (EACS) are not necessarily implemented on a single device, i.e. all services can be run on a control panel, event aggregator software on PC, etc.

This document does not define internal communication between an access control unit and its components if they are implemented on a single device.

This document is based upon work done by the ONVIF open industry forum. The ONVIF Access Control specification and ONVIF Door Control specification are compatible with this document.

This document is accompanied by a set of computer readable interface definitions:

- Access control service WSDL, see Clause A.1;
- Door control service WSDL, see Clause A.2;
- Common schema, see Clause A.3;

Due to the differences in terminology used in IEC 60839-11-1, IEC 60839-11-2 and the ONVIF specification that this part of IEC 60839 is based on, a reader should take special notice of the terms and definitions clause.

Additional services needed for configuration of an EACS such as definitions of schedules, handling of access rules, readers and credentials are outside the scope of this document. These services will be covered by other parts of the IEC 60839-11-3x family of standards.

ALARM AND ELECTRONIC SECURITY SYSTEMS –

Part 11-32: Electronic access control systems – Access control monitoring based on Web services

1 Scope

This part of IEC 60839 defines the Web services interface for electronic access control systems. This includes listing electronic access control system components, their logical composition, monitoring their states and controlling them. It also includes a mapping of mandatory and optional requirements as per IEC 60839-11-1.

This document applies to physical security only. Physical security prevents unauthorized personnel, attackers or accidental intruders from physically accessing a building, room, etc.

Web services usage and device management functionality are outside of the scope of this document. Refer to IEC 60839-11-31 for more information.

This document does not in any way limit a manufacturer to add other protocols or extend the protocol defined here. For rules on how to accomplish this refer to IEC 60839-11-31.

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

IEC 60839-11-2, *Alarm and electronic security systems – Part 11-2: Electronic access control systems – Application guidelines*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document the terms and definitions given in IEC 60839-11-1 and IEC 60839-11-2, as well as the following, 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

NOTE When the IEC term defined in IEC 60839-11-1 and IEC 60839-11-2 differs from the terms used in this document the IEC term will be given in parentheses in the section headers.

3.1.1
access point
portal
physical entrance/exit at which access can be controlled by a door, turnstile or other secure barrier

Note 1 to entry: For the purposes of this document the access point is considered to be a logical composition of a physical door and reader(s) controlling access in one direction.

Note 2 to entry: In this document, the term "door" has the same meaning as "access point" or "portal".

3.1.2
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

Note 1 to entry: In this document, the term “door lock” is used.

3.1.3
access point mode
logical operating mode of the portal indicating whether the portal is locked, unlocked, blocked, locked down or locked open, etc.

Note 1 to entry: In this document, the term “door mode” is used.

3.1.4
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

Note 1 to entry: In this document, the term “door monitor” is used.

3.1.5
access point overriding
portal overriding
action of issuing a manual command to bypass the pre-configured mode of operation (i.e. release/secure/block) of an access point

Note 1 to entry: In this document, the terms “momentary access” and “unlocked” are examples of access point overriding.

3.1.6
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.

Note 2 to entry: In this document, the term "door alarm" is used.

3.1.7
client
service requester

EXAMPLE System management, annunciation, monitoring console.

3.1.8
device
service provider

EXAMPLE: Access control unit.