

STN	Poplachové a elektronické bezpečnostné systémy Časť 11-33: Elektronické systémy zabezpečenia prístupu Konfigurácia zabezpečenia prístupu na báze webových služieb	STN EN IEC 60839-11-33 33 4593
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Alarm and electronic security systems - Part 11-33: Electronic access control systems - Access control configuration based on Web services

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/21

Obsahuje: EN IEC 60839-11-33:2021, IEC 60839-11-33:2021

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NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60839-11-33

October 2021

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English Version

**Alarm and electronic security systems - Part 11-33: Electronic
access control systems - Access control configuration based on
Web services
(IEC 60839-11-33:2021)**

Systèmes d'alarme et de sécurité électroniques - Partie 11-
33: Systèmes de contrôle d'accès électronique -
Configuration du contrôle d'accès en fonction des services
Web
(IEC 60839-11-33:2021)

Alarmanlagen - Teil 11-33: Elektronische
Zutrittskontrollanlagen - Parametrierung der Zutrittskontrolle
basierend auf Web Services
(IEC 60839-11-33:2021)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 60839-11-33:2021 (E)**European foreword**

The text of document 79/646/FDIS, future edition 1 of IEC 60839-11-33, prepared by IEC/TC 79 “Alarm and electronic security systems” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60839-11-33:2021.

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Annex ZA (normative)

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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60839-11-1	2013	Alarm and electronic security systems -EN 60839-11-1 Part 11-1: Electronic access control systems - System and components requirements		2013
-	-		+ AC	2015
IEC 60839-11-2	2014	Alarm and electronic security systems -EN 60839-11-2 Part 11-2: Electronic access control systems - Application guidelines		2015
-	-		+ AC	2015
IEC 60839-11-31	2016	Alarm and electronic security systems -EN 60839-11-31 Part 11-31: Electronic access control systems - Core interoperability protocol based on Web services		2017
IEC 60839-11-32	2016	Alarm and electronic security systems -EN 60839-11-32 Part 11-32: Electronic access control systems - Access control monitoring based on Web services		2017
ISO 16484-5	2017	Building automation and control systemsEN ISO 16484-5 (BACS) - Part 5: Data communication protocol		2017
RFC 5545	-	Internet Calendaring and Scheduling Core- Object Specification (iCalendar)		-
RFC 5234	-	Augmented BNF for Syntax Specifications:- ABNF		-



IEC 60839-11-33

Edition 1.0 2021-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Alarm and electronic security systems –
Part 11-33: Electronic access control systems – Access control configuration
based on Web services**

**Systèmes d'alarme et de sécurité électroniques –
Partie 11-33: Systèmes de contrôle d'accès électronique – Configuration du
contrôle d'accès en fonction des services Web**

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Edition 1.0 2021-08

INTERNATIONAL STANDARD

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**Alarm and electronic security systems –
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**Systèmes d'alarme et de sécurité électroniques –
Partie 11-33: Systèmes de contrôle d'accès électronique – Configuration du
contrôle d'accès en fonction des services Web**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM AND ELECTRONIC SECURITY SYSTEMS –**Part 11-33: Electronic access control systems –
Access control configuration based on Web services**

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

FDIS	Report on voting
79/646/FDIS	79/648/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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

IMPORTANT – The "colour inside" logo on the cover page of this document 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.

The 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 Credential specification, ONVIF Access Rules specification, ONVIF Authentication Behaviour specification and ONVIF Schedule specification are compatible with this document.

This document is accompanied by a set of computer readable interface definitions (see Annex A):

- credential service WSDL, see Clause A.1;
- access rules service WSDL, see Clause A.2;
- authentication behaviour service WSDL, see Clause A.3;
- schedule service WSDL, see Clause A.4.

Due to the differences in terminology used in IEC 60839-11-1:2013 and IEC 60839-11-2:2014 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 monitoring of doors and access points (portal sides) are outside the scope of this document. These services are covered by IEC 60839-11-32.

ALARM AND ELECTRONIC SECURITY SYSTEMS –

Part 11-33: Electronic access control systems – Access control configuration 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 in accordance with IEC 60839-11-1:2013, as covered by Annex B.

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 the scope of this document. Refer to IEC 60839-11-31:2016 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 60839-11-31:2016.

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

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

IEC 60839-11-31:2016, *Alarm and electronic security systems – Part 11-31: Electronic access control systems – Core interoperability protocol based on Web services*

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

ISO 16484-5:2017, *Building automation and control systems (BACS) – Part 5: Data communication protocol*

RFC 5545, *Internet Calendaring and Scheduling Core Object Specification (iCalendar)*, (available at <https://tools.ietf.org/html/rfc5545>)

RFC 5234, *Augmented BNF for Syntax Specifications: ABNF*, (available at <https://tools.ietf.org/html/rfc5234>)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN