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Larmsystem – Utrustning och system för TV-övervakning (CCTV) – Del 2-31: Direktuppspelning och styrning baserat på webbtjänster

*Video surveillance systems for use in security applications –
Part 2-31: Live streaming and control based on web services*

Som svensk standard gäller europastandarden EN IEC 62676-2-31:2019. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 62676-2-31:2019.

Nationellt förord

Europastandarden EN IEC 62676-2-31:2019

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- **IEC 62676-2-31, First edition, 2019 - Video surveillance systems for use in security applications - Part 2-31: Live streaming and control based on web services**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 62676-2-3, utgåva 1, 2014, gäller ej fr o m 2022-07-31.

Denna standard tillsammans med SS-EN 60839-11-31 och SS-EN IEC 62676-2-32, ersätter SS-EN 62676-2-3, utgåva 1, 2014.

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English Version

**Video surveillance systems for use in security applications - Part
2-31: Live streaming and control based on web services
(IEC 62676-2-31:2019)**

Systèmes de vidéosurveillance destinés à être utilisés dans
les applications de sécurité - Partie 2-31: Transmission en
continu en direct et contrôle basé sur les services web
(IEC 62676-2-31:2019)

Videouüberwachungsanlagen für Sicherungsanwendungen -
Teil 2-31: Videoübertragungsprotokolle - IP-
Interoperabilität auf Basis von Webservices - Echtzeit-
Streaming und Konfiguration
(IEC 62676-2-31:2019)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 79/620/FDIS, future edition 1 of IEC 62676-2-31, 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 62676-2-31:2019.

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) 2020-04-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-07-31

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The text of the International Standard IEC 62676-2-31:2019 was approved by CENELEC as a European Standard without any modification.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60839-11-31	-	Alarm and electronic security systems - Part 11-31: Electronic access control systems - Core interoperability protocol based on Web services	EN 60839-11-31	-
ISO 12639	-	Graphic technology -- Prepress digital data exchange -- Tag image file format for image technology (TIFF/IT)	-	-
RFC 1952	-	GZIP file format specification_ - Version 4.3	-	-
RFC 2326	-	Real Time Streaming Protocol (RTSP)	-	-
RFC 2435	-	RTP Payload Format for JPEG-compressed Video	-	-
RFC 2818	-	HTTP Over TLS	-	-
RFC 3016	-	RTP Payload Format for MPEG-4 Audio/Visual Streams	-	-
RFC 3550	-	RTP: A Transport Protocol for Real-Time Applications	-	-
RFC 3551	-	RTP Profile for Audio and Video Conferences with Minimal Control	-	-
RFC 3640	-	RTP Payload Format for Transport of MPEG-4 Elementary Streams	-	-
RFC 3984	-	RTP Payload Format for H.264 Video	-	-
RFC 4566	-	SDP: Session Description Protocol	-	-
RFC 6455	-	The WebSocket Protocol	-	-
RFC 7798	-	RTP Payload Format for High Efficiency Video Coding	-	-
Apple		Tunneling QuickTime RTSP and RTP over HTTP		

CONTENTS

FOREWORD.....	8
INTRODUCTION.....	10
1 Scope.....	11
2 Normative references	11
3 Terms and definitions	12
4 Overview	13
4.1 General.....	13
4.2 Device IO.....	13
4.3 Imaging configuration.....	13
4.4 Media configuration	13
4.4.1 Media profiles	13
4.4.2 Video source mode	16
4.5 Real-time streaming.....	16
4.6 PTZ Control	17
4.7 Analytics	18
4.8 Interfaces.....	20
5 Device IO service	20
5.1 General.....	20
5.2 VideoOutputs	20
5.2.1 General	20
5.2.2 GetVideoOutputs	20
5.3 VideoOutputConfiguration	21
5.3.1 GetVideoOutputConfiguration	21
5.3.2 SetVideoOutputConfiguration	21
5.3.3 GetVideoOutputConfigurationOptions	22
5.4 VideoSources	22
5.4.1 General	22
5.4.2 GetVideoSources.....	22
5.5 AudioOutputs	22
5.5.1 General	22
5.5.2 GetAudioOutputs	23
5.6 AudioSources	23
5.6.1 General	23
5.6.2 GetAudioSources.....	23
5.7 Capabilities.....	23
6 Media service	24
6.1 General.....	24
6.2 Media profile methods.....	25
6.2.1 Create media profile	25
6.2.2 Get media profiles	25
6.2.3 Add one or more configurations to a profile.....	26
6.2.4 Remove one or more configurations from a profile	27
6.2.5 Delete media profile.....	27
6.3 Media configurations.....	28
6.3.1 General	28
6.3.2 Video source configuration	28

6.3.3	Video encoder configuration	29
6.3.4	Audio source configuration	29
6.3.5	Audio encoder configuration	29
6.3.6	PTZ Configuration	29
6.3.7	Analytics configuration.....	29
6.3.8	Metadata configuration	30
6.3.9	Audio output configuration	30
6.3.10	Audio decoder configuration	31
6.4	Media Configuration Methods.....	31
6.4.1	General	31
6.4.2	Get configurations	31
6.4.3	Modify a configuration	32
6.4.4	Get configuration options.....	32
6.4.5	GetVideoEncoderInstances.....	33
6.5	GetStreamUri.....	34
6.6	GetSnapshotUri	35
6.7	Multicast	35
6.7.1	General	35
6.7.2	Start multicast streaming	36
6.7.3	Stop multicast streaming	36
6.8	SetSynchronizationPoint	37
6.9	Video source mode	37
6.9.1	General	37
6.9.2	GetVideoSourceModes	37
6.9.3	SetVideoSourceMode	38
6.10	OSD (on-screen display)	38
6.10.1	General	38
6.10.2	CreateOSD	39
6.10.3	DeleteOSD	40
6.10.4	GetOSDs	40
6.10.5	SetOSD	41
6.10.6	GetOSDOptions	41
6.11	Privacy masks.....	42
6.11.1	General	42
6.11.2	CreateMask	43
6.11.3	DeleteMask	43
6.11.4	GetMasks	44
6.11.5	SetMask	44
6.11.6	GetMaskOptions	45
6.12	Capabilities	45
6.13	Events	46
6.13.1	ProfileChange.....	46
6.13.2	ConfigurationChange	46
6.13.3	ActiveConnections	47
6.14	Deviations of media service version 1	47
6.14.1	General	47
6.14.2	Profile management.....	47
6.14.3	Configuration listing	48
6.14.4	Privacy masks	48

7	Imaging service	48
7.1	General.....	48
7.2	Imaging settings.....	48
7.2.1	Parameters	48
7.2.2	GetImagingSettings	50
7.2.3	SetImagingSettings.....	51
7.2.4	GetOptions	51
7.3	Imaging Presets	52
7.3.1	General	52
7.3.2	GetPresets	52
7.3.3	GetCurrentPreset	52
7.3.4	SetCurrentPreset.....	53
7.4	Focus operations	54
7.4.1	Move	54
7.4.2	GetMoveOptions.....	54
7.4.3	Stop.....	55
7.4.4	GetImagingStatus	55
7.5	Capabilities	56
8	PTZ service	56
8.1	General.....	56
8.2	PTZ node	57
8.2.1	General	57
8.2.2	GetNodes	57
8.2.3	GetNode	57
8.3	PTZ configuration	58
8.3.1	General	58
8.3.2	GetConfigurations.....	59
8.3.3	GetConfiguration	59
8.3.4	GetConfigurationOptions	60
8.3.5	SetConfiguration.....	60
8.3.6	GetCompatibleConfigurations	61
8.4	Move operations	61
8.4.1	General	61
8.4.2	AbsoluteMove.....	61
8.4.3	RelativeMove.....	62
8.4.4	ContinuousMove.....	63
8.4.5	GeoMove	64
8.4.6	Stop.....	66
8.4.7	GetStatus	66
8.5	Preset operations.....	67
8.5.1	General	67
8.5.2	SetPreset	67
8.5.3	GetPresets	68
8.5.4	GotoPreset	69
8.5.5	RemovePreset.....	69
8.6	Home position operations	70
8.6.1	General	70
8.6.2	GotoHomePosition.....	70
8.6.3	SetHomePosition	71

8.7	Auxiliary operations	71
8.7.1	General	71
8.7.2	SendAuxiliaryCommand.....	71
8.8	Predefined PTZ Spaces	72
8.8.1	General	72
8.8.2	Absolute position spaces	72
8.8.3	Relative translation spaces	77
8.8.4	Continuous velocity spaces	78
8.8.5	Speed spaces.....	79
8.9	Preset tour operations.....	80
8.9.1	General	80
8.9.2	GetPresetTours	81
8.9.3	GetPresetTour	81
8.9.4	GetPresetTourOptions	82
8.9.5	CreatePresetTour	82
8.9.6	ModifyPresetTour	83
8.9.7	OperatePresetTour	83
8.9.8	RemovePresetTour	84
8.9.9	Preset tour parameters	85
8.10	Pan/tilt control direction configuration	86
8.11	Capabilities	87
8.12	Events	88
8.12.1	General	88
8.12.2	PTZ presets	88
8.12.3	PresetTours.....	88
9	Analytics service.....	89
9.1	General.....	89
9.2	Scene description interface.....	89
9.2.1	Overview	89
9.2.2	Frame-related content	89
9.2.3	Scene elements	92
9.3	Rule interface	99
9.3.1	General	99
9.3.2	Rule representation	100
9.3.3	Rule description language	100
9.3.4	Operations on rules	101
9.4	Analytics modules interface	104
9.4.1	General	104
9.4.2	Analytics module configuration	105
9.4.3	Analytics module description language	105
9.4.4	Operations on analytics modules	105
9.5	GetAnalyticsModuleOptions	108
9.6	Capabilities	109
9.7	Events – Audio Detected.....	109
10	Real-time streaming	110
10.1	General.....	110
10.2	Media stream protocol.....	110
10.2.1	Transport format.....	110
10.2.2	Media transport	111

10.2.3	Synchronization points.....	115
10.2.4	JPEG over RTP	116
10.3	Media control protocol.....	118
10.3.1	RTSP stream control	118
10.3.2	Keep-alive method for RTSP session.....	120
10.3.3	RTSP audio and video synchronization.....	121
10.3.4	RTSP session for a metadata stream.....	121
10.3.5	Multicast streaming.....	122
10.3.6	RTSP message example.....	122
10.3.7	RTSP over HTTP	123
10.4	Back channel connection	123
10.4.1	General	123
10.4.2	RTSP Require tag.....	123
10.4.3	Connection setup for a bi- directional connection.....	124
10.4.4	Describe example for a server without backchannel support:	124
10.4.5	Describe example for a server with ONVIF backchannel support:	124
10.4.6	Multicast streaming.....	126
10.5	Error handling	126
Annex A (normative)	Efficient XML Interchange (EXI)	127
Annex B (normative)	Lens description	128
Annex C (informative)	Specified rules	130
C.1	General.....	130
C.2	LineDetector	130
C.3	FieldDetector	130
C.4	LoiteringDetector	131
C.5	Declarative motion detector	132
C.6	Counting rule	133
C.7	Query rule.....	134
Annex D (informative)	Cell motion detection	135
D.1	Cell motion detector.....	135
D.2	Cell motion analytics engine	136
D.2.1	General	136
D.2.2	Module configuration	137
Annex E (normative)	Motion detection.....	139
Annex F (normative)	Schema files	141
F.1	Device IO.....	141
F.2	Imaging.....	156
F.3	Media.....	162
F.4	Media 2.....	199
F.5	PTZ	221
F.6	Analytics	234
F.7	Common schema	240
F.8	Streaming metadata schema.....	279
Bibliography		284
Figure 1 – A media profile		14
Figure 2 – Complete profile configuration		15
Figure 3 – Layer structure		16

Figure 4 – Analytics architecture	19
Figure 5 – Example with four OSD configurations	39
Figure 6 – Example of screen with mask and coordinate system	42
Figure 7 – Spherical pan/tilt position space in degrees for a camera mounted on the ceiling	74
Figure 8 – Example of changes of pan/tilt control direction by E-Flip and Reverse	87
Figure 9 – Default frame coordinate system	91
Figure 10 – RTP header.....	111
Figure 11 – RTCP sequence	114
Figure 12 – RTCP Sender Report	115
Figure 13 – Media synchronization.....	115
Figure 14 – RTP/JPEG packet structure.....	116
Figure 15 – Stream control.....	119
Figure 16 – Keep alive	121
Figure B.1 – Optical mapping of angle (α) via radius (R) to normalized x/y coordinates	128
Figure B.2 – Smooth mapping using B-splines	128
Figure B.3 – Compensation of vertical axis offset.....	129
Figure D.1 – CellLayout of an 8 × 6 CellMotionEngine	138
Table 1 – Referenced namespaces (with prefix).....	20
Table 2 – Colourspace namespace values	97
Table 3 – Description of attributes of MotionInCells type	99
Table 4 – RTP header value	112
Table 5 – RTSP methods	120
Table A.1 – ONVIF defined EXI header settings.....	127
Table A.2 – ONVIF defined EXI configuration settings	127
Table C.1 – Loitering Detector rule configuration parameters.....	132
Table C.2 – Description of loitering event fields	132
Table C.3 – Declarative motion detector rule configuration parameters	133
Table C.4 – Description of declarative motion event fields	133
Table C.5 – Counting rule configuration parameters.....	134
Table C.6 – Description of counting event fields.....	134
Table C.7 – Query Rule configuration parameters	134
Table D.1 – Cell motion detector rule configuration parameters	136
Table D.2 – Description cell motion detected event fields.....	136
Table D.3 – Module configuration parameters	137
Table D.4 – Description of CellLayout fields.....	137
Table E.1 – Motion Region Detector Rule configuration parameters	139
Table E.2 – Motion region detector rule configuration options	140
Table E.3 – Description of the motion region detector event fields	140

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**VIDEO SURVEILLANCE SYSTEMS FOR
USE IN SECURITY APPLICATIONS –****Part 2-31: Live streaming and control
based on web services****FOREWORD**

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International Standard IEC 62676-2-31 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

This first edition, together with IEC 60839-11-31 and IEC 62676-2-32, cancels and replaces IEC 62676-2-3:2013.

This edition includes the following significant technical changes with respect to IEC 62676-2-3:2013:

- a) addition of the Media2 service;
- b) additional methods for the imaging service;
- c) method duplicates from the device IO service have been removed;
- d) both the display and analytics device service are no more included.

This publication contains attached schema files. These files are intended to be used as a complement and do not form an integral part of the standard

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

FDIS	Report on voting
79/620/FDIS	79/622/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 62676 series, published under the general title *Video surveillance systems for use in security applications*, 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

- 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

The goal of this document is to provide a fully interoperable network video implementation comprised of products from different network video vendors. This document describes the network video model, interfaces, data types and data exchange patterns. The document reuses existing relevant standards where available and introduces new specifications only where necessary to support the specific requirements for network video surveillance.

VIDEO SURVEILLANCE SYSTEMS FOR USE IN SECURITY APPLICATIONS –

Part 2-31: Live streaming and control based on web services

1 Scope

This document defines procedures for communication between network video clients and video transmitter devices. This new set of specifications makes it possible to build network video systems with devices and receivers from different manufacturers using common and well-defined interfaces. These interfaces cover functions such as media and imaging configuration, real-time streaming of audio and video, pan, tilt and zoom (PTZ) control as well as analytics.

The management and control interfaces defined in this document are described as web services. Annex F contains XML schema and Web Service Description Language (WSDL) definitions for the introduced network services.

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

ISO 12639, *Graphic technology – Prepress digital data exchange – Tag image file format for image technology (TIFF/IT)*

INTERNET ENGINEERING TASK FORCE (IETF). RFC 1952: *GZIP file format specification version 4.3* [online]. Edited by P. Deutsch. May 1996 [viewed 2019-01-08]. Available at <http://tools.ietf.org/html/rfc1952>

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INTERNET ENGINEERING TASK FORCE (IETF), RFC 3016: *RTP Payload Format for MPEG-4 Audio/Visual Streams* [online]. Edited by Y. Kikuchi et al. November 2000 [viewed 2019-01-08]. Available at <http://www.ietf.org/rfc/rfc3016.txt>

INTERNET ENGINEERING TASK FORCE (IETF), RFC 3550: *RTP: A Transport Protocol for Real-Time Applications* [online]. Edited by H. Schulzrinne et al. July 2003 [viewed 2019-01-08]. Available at <http://www.ietf.org/rfc/rfc3550.txt>

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