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Australian/New Zealand Standard™

# Video surveillance systems for use in security applications

Part 2.31: Live streaming and control based on web services



AS/NZS IEC 62676.2.31:2020

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- Australian Security Industry Association
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- Fire Protection Association Australia
- Insurance Council of Australia
- New Zealand Security Association
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web services**

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## Preface

This Standard was prepared by the Standards Australia/Standards New Zealand Committee EL-031, Intruder Alarm Equipment and Installations.

The objective of this document is to define 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.

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## NOTES

## 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 ( $\alpha$ ) 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**

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

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## 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)*

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INTERNET ENGINEERING TASK FORCE (IETF). RFC 2435: *RTP Payload Format for JPEG-compressed Video* [online]. Edited by L. Berc et al. October 1998 [viewed 2019-01-08]. Available at <http://www.ietf.org/rfc/rfc2435.txt>

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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>