

**Державне підприємство  
«Український науково-дослідний і навчальний центр  
проблем стандартизації, сертифікації та якості»  
(ДП «УкрНДНЦ»)**

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**ДСТУ ІЕС 62676-2-3:2017  
(ІЕС 62676-2-3:2013, IDT)  
Системи відеоспостереження охоронного призначення.  
Частина 2-3. Протоколи передавання відео.  
Реалізація IP-сумісності на основі Web-послуг**

IEC 62676-2-3:2013 Video surveillance systems for use in security applications — Part 2-3: Video transmission protocols — IP interoperability implementation based on Web services

Прийнято як національний стандарт методом підтвердження за позначенням ДСТУ IEC 62676-2-3:2017 Системи відеоспостереження охоронного призначення. Частина 2-3. Протоколи передавання відео. Реалізація IP-сумісності на основі Web-послуг

Наказ від 30.12.2017 № 413

Чинний від 15 грудня 2017 року

# CONTENTS

## FOREWORD

## INTRODUCTION

- 1 Scope
- 2 Normative references
- 3 Terms, definitions and abbreviations
  - 3.1 Terms and definitions
  - 3.2 Abbreviations
- 4 Overview
  - 4.1 Web services
  - 4.2 IP configuration
  - 4.3 Device discovery
  - 4.4 Device types
  - 4.5 Device management
  - 4.6 DeviceIO
  - 4.7 Imaging configuration
  - 4.8 Media configuration
  - 4.9 Real-time streaming
  - 4.10 Event handling
  - 4.11 PTZ control
  - 4.12 Video analytics
  - 4.13 Analytics device
  - 4.14 Display
  - 4.15 Receiver
  - 4.16 Storage
  - 4.17 Security
- 5 Web Services framework
  - 5.1 Services overview
  - 5.2 WSDL overview
  - 5.3 Namespaces
  - 5.4 Types
  - 5.5 Messages
  - 5.6 Operations
  - 5.7 Port types
  - 5.8 Binding
  - 5.9 Ports
  - 5.10 Services
  - 5.11 Error handling
  - 5.12 Security
- 6 IP configuration
- 7 Device discovery
  - 7.1 General
  - 7.2 Modes of operation

- 7.3 Discovery definitions
- 7.4 Remote discovery extensions
- 8 Device management
  - 8.1 Capabilities
  - 8.2 Network
  - 8.3 System
  - 8.4 Security
  - 8.5 Input/Output (I/O)
  - 8.6 Service specific fault codes
- 9 Device IO Service
  - 9.1 VideoOutputs
  - 9.2 VideoOutputConfiguration
  - 9.3 VideoSources
  - 9.4 VideoSourceConfiguration
  - 9.5 AudioOutputs
  - 9.6 AudioOutputConfiguration
  - 9.7 AudioSources
  - 9.8 AudioSourceConfiguration
  - 9.9 Relay outputs
  - 9.10 Service specific fault codes
- 10 Imaging configuration
  - 10.1 Imaging settings
  - 10.2 Service specific fault codes
- 11 Media configuration
  - 11.1 Audio and video codecs
  - 11.2 Media profile
  - 11.3 Video source
  - 11.4 Video source configuration
  - 11.5 Video encoder configuration
  - 11.6 Audio source
  - 11.7 Audio source configuration
  - 11.8 Audio encoder configuration
  - 11.9 Video analytics configuration
  - 11.10 Metadata configuration
  - 11.11 Audio outputs
  - 11.12 Audio output configuration
  - 11.13 Audio decoder configuration
  - 11.14 Audio channel modes
  - 11.15 Stream URI
  - 11.16 Snapshot
  - 11.17 Multicast
  - 11.18 Synchronization points
  - 11.19 Service specific fault codes
- 12 Real time streaming

- 12.1 Media stream protocol
- 12.2 Media control protocol
- 12.3 Back channel connection
- 12.4 Error handling
- 13 Receiver configuration
  - 13.1 Persistence
  - 13.2 Receiver modes
  - 13.3 Receiver commands
  - 13.4 Events
  - 13.5 Service specific fault codes
- 14 Display service
  - 14.1 Panes
  - 14.2 Layout
  - 14.3 Display options
  - 14.4 Events
  - 14.5 Service specific fault codes
- 15 Event handling
  - 15.1 Basic notification interface
  - 15.2 Real-time Pull-Point Notification Interface
  - 15.3 Notification streaming interface
  - 15.4 Properties
  - 15.5 Notification structure
  - 15.6 Synchronization point
  - 15.7 Topic structure
  - 15.8 Get event properties
  - 15.9 SOAP fault messages
  - 15.10 Notification example
  - 15.11 Service specific fault codes
- 16 PTZ control
  - 16.1 PTZ Model
  - 16.2 PTZ Node
  - 16.3 PTZ configuration
  - 16.4 Move operations
  - 16.5 Preset operations
  - 16.6 Home position operations
  - 16.7 Auxiliary operations
  - 16.8 Predefined PTZ spaces
  - 16.9 Service specific fault codes
- 17 Video analytics
  - 17.1 Scene description interface
  - 17.2 Rule interface
  - 17.3 Analytics modules interface
  - 17.4 Service-specific fault codes
- 18 Analytics device

- 18.1 Overview
- 18.2 Analytics engine input
- 18.3 Video analytics configuration
- 18.4 Analytics engines
- 18.5 Analytics engine control
- 18.6 GetAnalyticsState
- 18.7 Output streaming configuration
- 19 Recording control
  - 19.1 General
  - 19.2 General requirements
  - 19.3 Data structures
  - 19.4 CreateRecording
  - 19.5 DeleteRecording
  - 19.6 GetRecordings
  - 19.7 SetRecordingConfiguration
  - 19.8 GetRecordingConfiguration
  - 19.9 CreateTrack
  - 19.10 DeleteTrack
  - 19.11 GetTrackConfiguration
  - 19.12 SetTrackConfiguration
  - 19.13 CreateRecordingJob
  - 19.14 DeleteRecordingJob
  - 19.15 GetRecordingJobs
  - 19.16 SetRecordingJobConfiguration
  - 19.17 GetRecordingJobConfiguration
  - 19.18 SetRecordingJobMode
  - 19.19 GetRecordingJobState
  - 19.20 Events
  - 19.21 Examples
- 20 Recording search
  - 20.1 General
  - 20.2 Concepts
  - 20.3 Data structures
  - 20.4 GetRecordingSummary
  - 20.5 GetRecordingInformation
  - 20.6 GetMediaAttributes
  - 20.7 FindRecordings
  - 20.8 GetRecordingSearchResults
  - 20.9 FindEvents
  - 20.10 GetEventSearchResults
  - 20.11 FindPTZPosition
  - 20.12 GetPTZPositionSearchResults
  - 20.13 FindMetadata
  - 20.14 GetMetadataSearchResults

20.15	GetSearchState
20.16	EndSearch
20.17	Recording Event Descriptions
20.18	XPath dialect
21	Replay control
21.1	Use of RTSP
21.2	RTP header extension
21.3	RTSP feature tag
21.4	Initiating Playback
21.5	Reverse replay
21.6	RTSP keepalive
21.7	Currently recording footage
21.8	End of footage
21.9	Go to time
21.10	Use of RTCP
21.11	Replay service commands
22	Security
22.1	Transport level security
22.2	Message level security
22.3	IEEE 802.1X
Annex A	(informative) Notification topics
Annex B	(informative) Scene descriptions
Annex C	(normative) Video IP network interface XML schemata
	Bibliography

## **SCOPE**

This part 2 -3 of IEC 62676 defines procedures for communication between network video clients and video transmitter devices based on Web Services. 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 device management, real-time streaming of audio and video, event handling, Pan, Tilt and Zoom (PTZ) control, video analytics as well as control, search and replay of recordings.

The management and control interfaces defined in this standard are described as Web services. This international standard also contains full XML schema and Web Service Description Language (WSDL) definitions for the introduced network video services.

In order to offer full plug-and-play interoperability, the standard defines procedures for device discovery. The device discovery mechanisms in the standard are based on the WS-Discovery specification with extensions. These extensions have been introduced in order to cover the specific network video discovery needs.

This standard is not limited to discovery, configuration and control functions, but defines precise formats for media and metadata streaming in IP networks using

suitable profiling of IETF standards. Furthermore, appropriate protocol extensions have been introduced in order to make it possible for network video manufacturers to offer a fully standardized network video transfer solution to its customers and integrators.

A video transmission device supporting compliance to the requirements of this standard with the help of Web services according to the specification of this part is declared as compatible to IEC 62676-2 Web service Interoperability.

The goal of this standard is to realize a fully interoperable network video implementation comprised of products from different network video vendors. This standard describes the network video model, interfaces, data types and data exchange patterns. The standard reuses existing relevant standards where available, and introduces new specifications only where necessary to support the specific requirements for network video surveillance. This is the Open Network Video Interface Forum (ONVIF) core specification. In addition, ONVIF has released the following related specifications:

- ONVIF Schema [see C.15]
- ONVIF Analytics Service WSDL [see C.1]
- ONVIF Analytics Device Service [see C.2]
- ONVIF Device Service WSDL [see C.4]
- ONVIF DeviceIO Service WSDL [see C.3]
- ONVIF Display Service WSDL [see C.5]
- ONVIF Event Service WSDL [see C.6]
- ONVIF Imaging Service WSDL [see C.7]
- ONVIF Media Service WSDL [see C.8]
- ONVIF PTZ Service WSDL [see C.9]
- ONVIF Receiver Service WSDL [see C.10]
- ONVIF Recording Service WSDL [see C.11]
- ONVIF Remote Discovery WSDL [see C.12]
- ONVIF Replay Service WSDL [see C.13]
- ONVIF Search Service WSDL [see C.14]
- ONVIF Topic Namespace XML [see C.16]

The purpose of this standard is to define the ONVIF specification framework, and is divided into the following sections:

**Specification overview:** Gives an overview of the different specification parts and how they are related to each other.

**Web Services Framework:** Offers a brief introduction to Web Services and the Web Services basis for the ONVIF specifications.

**IP configuration:** Defines the ONVIF network video IP configuration requirements.

**Device discovery:** Describes how devices are discovered in local and remote networks.



Device management: Defines the network video transmitter management commands.

DeviceIO: Defines commands to handle physical inputs and outputs.

Display: Defines commands to deal with display devices.

Imaging and media: Defines the configuration commands related to imaging and media settings.

Real time streaming: Provides requirements for interoperable video, audio and metadata streaming.

Event handling: Defines how to subscribe to and receive data from network video events (notifications).

PTZ control: Provides commands for pan, tilt and zoom control.

Video analytics: Defines the ONVIF analytics model, analytics object description and analytics rules configurations.

Video analytics device: Defines commands to deal with a video analytics device.

Recording control: Defines mechanism for the configuring of recordings.

Recording search and replay control: Provides commands for retrieval of recorded media including metadata.

Security section: Defines the transport and message level security requirements on ONVIF compliant implementations.

**Повну версію стандарту можна придбати за посиланням:**

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