

ONVIF™

Test Specification v17.01

Release Notes

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Overview

Important:

This ONVIF Test Specification v17.01 replaces the previously released version 16.07 SR2 along with the errata accepted. As of May 1st 2017 ONVIF members shall only declare conformance of a product with ONVIF specifications regarding this Test Specification v17.01.

- Test Cases Added
 - 12 test cases for Real time streaming using Media2
 - 4 test cases for Device IO
 - 12 test cases for PTZ using Media2
 - 1 test case for Imaging
 - 35 test cases for Media2 configuration
- Test cases modified
 - 22 test cases for Real time streaming
 - 2 test case for Real time streaming using Media2
 - 2 test cases in Media2 configuration
 - 2 test cases in IP Configuration
 - 1 test cases in Access Rules
 - 4 test cases in Device I/O
 - 1 test case in Schedule

Deprecated Test Cases

No test cases were deprecated in this version.

New Test Cases

The following tables lists all test cases that are newly introduced in this version.

Real time streaming using Media2 test cases

Test case ID	Test Case Name
MEDIA2_RTSS-2-1-1	MEDIA2 STREAMING – G.711 (RTP-Unicast/UDP)
MEDIA2_RTSS-2-1-2	MEDIA2 STREAMING – G.711 (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS-2-1-3	MEDIA2 STREAMING – G.711 (RTP/RTSP/TCP)
MEDIA2_RTSS-2-1-4	MEDIA2 STREAMING – G.711 (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-2-1-5	MEDIA2 STREAMING – G.711 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-2-1-6	MEDIA2 STREAMING – G.711 (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS-2-1-7	MEDIA2 STREAMING – AAC (RTP-Unicast/UDP)
MEDIA2_RTSS-2-1-8	MEDIA2 STREAMING – AAC (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS-2-1-9	MEDIA2 STREAMING – AAC (RTP/RTSP/TCP)
MEDIA2_RTSS-2-1-10	MEDIA2 STREAMING – AAC (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-2-1-11	MEDIA2 STREAMING – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-2-1-12	MEDIA2 STREAMING – AAC (RTP/RTSP/TCP, IPv6)

Device IO Test Cases

Test case ID	Test Case Name
DEVICEIO-3-1-1	GETDIGITALINPUTS
DEVICEIO-3-1-2	GETDIGITALINPUTS – VERIFY QUANTITY
DEVICEIO-3-1-3	I/O GET DIGITAL INPUT CONFIGURATION OPTIONS
DEVICEIO-3-1-4	I/O DIGITAL INPUT CONFIGURATION

PTZ using Media2 test cases

Test case ID	Test Case Name
MEDIA2_PTZ-1-1-1	PTZ ABSOLUTE MOVE USING MEDIA2 PROFILE
MEDIA2_PTZ-1-1-2	PTZ CONTINUOUS MOVE USING MEDIA2 PROFILE
MEDIA2_PTZ-1-1-3	PTZ CONTINUOUS MOVE AND STOP USING MEDIA2 PROFILE
MEDIA2_PTZ-2-1-1	PTZ GET AND SET PRESET USING MEDIA2 PROFILE
MEDIA2_PTZ-2-1-2	PTZ GOTO PRESET USING MEDIA2 PROFILE
MEDIA2_PTZ-2-1-3	PTZ REMOVE PRESET USING MEDIA2 PROFILE
MEDIA2_PTZ-3-1-1	PTZ HOME POSITION OPERATIONS (CONFIGURABLE) USING MEDIA2 PROFILE
MEDIA2_PTZ-3-1-2	PTZ HOME POSITION OPERATIONS (FIXED) USING MEDIA2 PROFILE
MEDIA2_PTZ-3-1-3	PTZ HOME POSITION OPERATIONS (USAGE OF FIXEDHOMEPOSITION FLAG) USING MEDIA2 PROFILE
MEDIA2_PTZ-4-1-1	ABSOLUTE PAN/TILT POSITION SPACE
MEDIA2_PTZ-4-2-1	CONTINUOUS PAN/TILT POSITION SPACE
MEDIA2_PTZ-4-2-2	GENERIC ZOOM VELOCITY SPACE

Imaging test cases

Test case ID	Test Case Name
IMAGING-1-1-15	IMAGING COMMAND SETIMAGESETTINGS ADDITIONAL FEATURES

Media2 configuration test cases

Test case ID	Test Case Name
MEDIA2-1-1-2	CREATE MEDIA PROFILE WITH PRE-DEFINED CONFIGURATION
MEDIA2-1-1-3	DYNAMIC MEDIA PROFILE CONFIGURATION
MEDIA2-2-1-1	VIDEO ENCODER INSTANCES
MEDIA2-2-2-1	GET VIDEO SOURCE CONFIGURATION OPTIONS
MEDIA2-2-2-2	GET VIDEO SOURCE CONFIGURATIONS
MEDIA2-2-2-3	VIDEO SOURCE CONFIGURATIONS AND VIDEO SOURCE CONFIGURATION OPTIONS CONSISTENCY
MEDIA2-2-2-4	PROFILES AND VIDEO SOURCE CONFIGURATIONS CONSISTENCY
MEDIA2-2-2-5	MODIFY ALL SUPPORTED VIDEO SOURCE CONFIGURATIONS
MEDIA2-2-2-6	GET VIDEO SOURCE CONFIGURATIONS - INVALID TOKEN
MEDIA2-2-4-1	GET VIDEO SOURCE MODES
MEDIA2-2-4-2	SET VIDEO SOURCE MODES
MEDIA2-3-1-1	GET AUDIO SOURCE CONFIGURATION OPTIONS
MEDIA2-3-1-2	GET AUDIO SOURCE CONFIGURATIONS
MEDIA2-3-1-3	AUDIO SOURCE CONFIGURATIONS AND AUDIO SOURCE CONFIGURATION OPTIONS CONSISTENCY
MEDIA2-3-1-4	PROFILES AND AUDIO SOURCE CONFIGURATIONS CONSISTENCY
MEDIA2-3-1-5	MODIFY ALL SUPPORTED AUDIO SOURCE CONFIGURATIONS
MEDIA2-3-1-6	GET AUDIO SOURCE CONFIGURATIONS - INVALID TOKEN
MEDIA2-3-2-1	G.711 AUDIO ENCODER CONFIGURATION
MEDIA2-3-2-2	AAC AUDIO ENCODER CONFIGURATION
MEDIA2-3-3-1	GET AUDIO OUTPUT CONFIGURATION OPTIONS
MEDIA2-3-3-2	GET AUDIO OUTPUT CONFIGURATIONS
MEDIA2-3-3-3	AUDIO OUTPUT CONFIGURATIONS AND AUDIO OUTPUT CONFIGURATION OPTIONS CONSISTENCY

MEDIA2-3-3-4	PROFILES AND AUDIO OUTPUT CONFIGURATIONS CONSISTENCY
MEDIA2-3-3-5	MODIFY ALL SUPPORTED AUDIO OUTPUT CONFIGURATIONS
MEDIA2-3-3-6	GET AUDIO OUTPUT CONFIGURATIONS - INVALID TOKEN
MEDIA2-3-4-1	GET AUDIO DECODER CONFIGURATION OPTIONS
MEDIA2-3-4-2	GET AUDIO DECODER CONFIGURATIONS
MEDIA2-3-4-3	PROFILES AND AUDIO DECODER CONFIGURATIONS CONSISTENCY
MEDIA2-3-4-4	MODIFY ALL SUPPORTED AUDIO DECODER CONFIGURATIONS
MEDIA2-3-4-5	GET AUDIO DECODER CONFIGURATIONS - INVALID TOKEN
MEDIA2-5-1-1	SNAPSHOT URI
MEDIA2-6-1-1	CREATE OSD CONFIGURATION FOR TEXT OVERLAY
MEDIA2-6-1-2	CREATE OSD CONFIGURATION FOR IMAGE OVERLAY
MEDIA2-6-1-3	SET OSD CONFIGURATION IMAGE OVERLAY
MEDIA2-6-1-4	SET OSD CONFIGURATION TEXT OVERLAY

Modified Test Cases

The following tables list all test cases that have been modified in this version.

Real time streaming test cases

Test case ID	Test Case Name
RTSS-1-1-27	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Unicast/UDP)
RTSS-1-1-28	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Unicast/RTSP/HTTP/TCP)
RTSS-1-1-29	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP/RTSP/TCP)
RTSS-1-1-30	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (MIX OF TRANSPORT TYPES)
RTSS-1-1-49	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Unicast/UDP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-50	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Unicast/RTSP/HTTP/TCP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-51	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP/RTSP/TCP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-52	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (MIX OF TRANSPORT TYPES) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-6-1-1	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Multicast/UDP)
RTSS-6-1-2	GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Multicast/UDP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-6-1-1	BACKCHANNEL – G.711 (RTP-Unicast/UDP, IPv4)
RTSS-6-1-2	BACKCHANNEL – G.711 (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
RTSS-6-1-3	BACKCHANNEL – G.711 (RTP/RTSP/TCP, IPv4)
RTSS-6-1-4	BACKCHANNEL – G.726 (RTP-Unicast/UDP, IPv4)
RTSS-6-1-5	BACKCHANNEL – G.726 (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
RTSS-6-1-6	BACKCHANNEL – G.726 (RTP/RTSP/TCP, IPv4)
RTSS-6-1-7	BACKCHANNEL – AAC (RTP-Unicast/UDP, IPv4)

RTSS-6-1-8	BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
RTSS-6-1-9	BACKCHANNEL – AAC (RTP/RTSP/TCP, IPv4)
RTSS-6-2-1	BACKCHANNEL – G.711 (RTP-Multicast/UDP, IPv4)
RTSS-6-2-2	BACKCHANNEL – G.726 (RTP-Multicast/UDP, IPv4)
RTSS-6-2-3	BACKCHANNEL – AAC (RTP-Multicast/UDP, IPv4)

Real time streaming using Media2 test cases

Test case ID	Test Case Name
MEDIA2_RTSS-1-2-1	MEDIA2 STREAMING - H.264 (RTSPMulticast, IPv4)
MEDIA2_RTSS-1-2-2	MEDIA2 STREAMING - H.264 (RTP-Multicast,IPv6)

Media2 configuration test cases

Test case ID	Test Case Name
MEDIA2-4-1-1	MEDIA2-4-1-1-v17.01 READY TO USE MEDIA PROFILE FOR PTZ
MEDIA2-4-1-2	DYNAMIC MEDIA PROFILE CONFIGURATION FOR PTZ

Access Rules test cases

Test case ID	Test Case Name
ACCESS_RULES-3-1-11	CREATE ACCESS PROFILE - NOT EMPTY ACCESS PROFILE TOKEN

Device IO Test Cases

Test case ID	Test Case Name
DEVICEIO-1-2-1	IO SETRELAYOUTPUTSTATE – BISTABLE MODE (OPENED IDLE STATE)
DEVICEIO-1-2-2	IO SETRELAYOUTPUTSTATE – BISTABLE MODE (CLOSED IDLE STATE)
DEVICEIO-1-2-3	IO SETRELAYOUTPUTSTATE – MONOSTABLE MODE (OPENED IDLE STATE)
DEVICEIO-1-2-4	IO SETRELAYOUTPUTSTATE – MONOSTABLE MODE (CLOSED IDLE STATE)

Schedule test cases

Test case ID	Test Case Name
SCHEDULE-6-1-1	GET SCHEDULE STATE

List of Device Test Specification Documents

Document	Release Date
ONVIF_Schedule_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Access_Rules_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Base_Test_Specification_17.01.pdf	Jan 2017
ONVIF_DeviceIO_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Imaging_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Feature_Discovery_Specification_17.01.pdf	Jan 2017
ONVIF_Profile_Q_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Media2_Configuration_Test_Specification_17.01.pdf*	Jan 2017
ONVIF_Real_Time_Streaming_using_Media2_Test_Specification_17.01.pdf	Jan 2017
ONVIF_PTZ_Using_Media2_Device_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Real_Time_Streaming_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Test_Specification_ReleaseNotes_V17.01.pdf	Jan 2017
ONVIF_Test_Case_Summary_For_Profiles_Conformance_17.01.xlsx	Jan 2017
ONVIF_Profiles_Conformance_Test_Specification_17.01.pdf	Jan 2017
ONVIF_Replay_Control_Test_Specification_16.07.pdf	July 2016
ONVIF_Advanced_Security_Test_Specification_16.07.pdf	July 2016
ONVIF_Recording_Control_Test_Specification_v1412.pdf	Dec 2014
ONVIF_Credential_Test_Specification_15.06.pdf	June 2015
ONVIF_PTZ_Test_Specification_15.06.pdf	June 2015
ONVIF_Recording_Search_Test_Specification_v1412.pdf	Dec 2014
ONVIF_Door_Control_Test_Specification_v1406.pdf	June 2014
ONVIF_Access_Control_Test_Specification_v13.12.pdf	Dec 2013
ONVIF_Receiver_Test_Specification_v13_12.pdf	Dec 2013
ONVIF_Media_Configuration_Test_Specification_15.06	Jun 2015

***PS: The test specification document is related to a not yet released Profile T and will get adapted along the profile development and hence will be mature only with the final release of the profile specification.**