

ONVIF™

Test Specification v16.07

Release Notes

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Overview

Important:

This ONVIF Test Specification v16.07 replaces the previously released version 16.01 along with the errata accepted. As of Nov 1st 2016 ONVIF members shall only declare conformance of a product with ONVIF specifications with reference to this Test Specification v16.07.

- Test Cases Added
 - 4 test cases for event handling
 - 9 test cases for real time streaming using Media2
 - 7 test cases for Media2 configuration
 - 10 test cases for Device IO
- Test cases modified
 - 5 test cases in event handling
 - 3 test cases in Advanced Security
 - 1 test case in Imaging
 - 4 test cases in device management
 - 2 test cases in IP Configuration
 - 3 test cases in search
 - 4 test cases in Replay
 - 1 test case in Quick install

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.

Event handling test cases

Test case ID	Test Case Name
EVENT-3-1-28	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO BLURRY
EVENT-3-1-29	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO DARK
EVENT-3-1-30	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO DARK
EVENT-3-1-31	REALTIME PULLPOINT SUBSCRIPTION – GLOBAL SCENE CHANGE

Media2 Configuration Test Cases

Test case ID	Test Case Name
MEDIA2-4-2-1	VIDEO ENCODER CONFIGURATION
MEDIA2-4-2-2	VIDEO ENCODER CONFIGURATIONS AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY
MEDIA2-4-2-3	PROFILES AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY
MEDIA2-4-2-4	VIDEO ENCODER CONFIGURATIONS – ALL SUPPORTED VIDEO ENCODER CONFIGURATIONS
MEDIA2-4-1-1	Media Configuration ready-to-use Media Service 2.0 Profile
MEDIA2-4-1-2	CREATE MEDIA PROFILE WITH PRE-DEFINED CONFIGURATION
MEDIA2-4-1-3	DYNAMIC MEDIA PROFILE CONFIGURATION

Real time streaming using Media2 test cases

Test case ID	Test Case Name
MEDIA2_RTSS_5-3-1	Real Time Viewing DUT H.264 media streaming using RTP-Unicast/UDP transport
MEDIA2_RTSS_5-3-2	Real Time Viewing DUT H.264 media2 streaming using HTTP transport
MEDIA2_RTSS_5-3-3	Real Time Viewing DUT H.264 media2 streaming using RTP/RTSP/TCP transport
MEDIA2_RTSS_5-3-4	MEDIA2 SET SYNCHRONIZATION POINT – H.264
MEDIA2_RTSS_5-3-5	MEDIA2 STREAMING – H.264 (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS_5-3-6	MEDIA2 STREAMING – H.264 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS_5-3-7	MEDIA2 STREAMING – H.264 (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS_5-3-8	MEDIA2 STREAMING – H.264 (RTP-Multicast, IPv4)
MEDIA2_RTSS_5-3-9	MEDIA2 STREAMING – H.264 (RTP-Multicast, IPv6)

Device IO Test Cases

Test case ID	Test Case Name
DEVICEIO-1-1-1	IO GETRELAYOUTPUTS
DEVICEIO-1-1-2	IO GETRELAYOUTPUTS – VERIFY QUANTITY
DEVICEIO-1-1-3	IO GETRELAYOUTPUTOPTIONS
DEVICEIO-1-1-4	IO SETRELAYOUTPUTSETTINGS
DEVICEIO-1-1-5	IO SETRELAYOUTPUTSETTINGS – INVALID TOKEN
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)
DEVICEIO-2-1-1	REAL TIME PULLPOINT SUBSCRIPTION – DIGITAL INPUT EVENT

Modified Test Cases

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

Event handling test cases

Test case ID	Test Case Name
EVENT-4-1-6	EVENT - NAMESPACES (DEFAULT NAMESPACES FOR EACH TAG)
EVENT-4-1-7	EVENT - NAMESPACES (DEFAULT NAMESPACES FOR PARENT TAG)
EVENT-4-1-8	EVENT - NAMESPACES (NOT STANDARD PREFIXES)
EVENT-4-1-9	EVENT - NAMESPACES (DIFFERENT PREFIXES FOR THE SAME NAMESPACE)
EVENT-4-1-10	EVENT - NAMESPACES (THE SAME PREFIX FOR DIFFERENT NAMESPACES)

Advanced Security Test Cases

Test case ID	Test Case Name
ADVANCED_SECURITY-3-2-4	Basic TLS Handshake after Replace Server Certificate Assignment
ADVANCED_SECURITY-3-2-5	BASIC TLS HANDSHAKE AFTER REPLACE SERVER CERTIFICATION PATH AND PKCS#12
ADVANCED-SECURITY-6-2-1	Upload PKCS8 – no key pair exists

Imaging Test cases

Test case ID	Test Case Name
IMAGING-1-1-4	IMAGING COMMAND SETIMAGINGSETTINGS

Search Test Cases

Test case ID	Test Case Name
SEARCH-3-1-11	FIND EVENTS – FORWARD AND BACKWARD SEARCH (SEARCH ENDPOINTS INSIDE RECORDING ENDPOINTS)
SEARCH-3-1-13	FIND EVENTS – FORWARD AND BACKWARD SEARCH (SEARCH ENDPOINTS EQUAL TO RECORDING ENDPOINTS)
SEARCH-3-1-14	FIND EVENTS – FORWARD AND BACKWARD SEARCH (SEARCH ENDPOINTS OUTSIDE RECORDING ENDPOINTS)

Device Management Test Cases

Test case ID	Test Case Name
DEVICE-2-1-12	SET NTP CONFIGURATION – NTPMANUAL IPV4

Replay Test Cases

Test case ID	Test Case Name
REPLAY-3-1-12	PLAYBACK VIDEO STREAMING – RATECONTROL
REPLAY-3-2-11	PLAYBACK AUDIO STREAMING – RATECONTROL
REPLAY-3-3-11	PLAYBACK METADATA STREAMING – RATECONTROL
REPLAY-3-4-11	PLAYBACK VIDEO, AUDIO AND METADATA STREAMING – RATECONTROL

IP Configuration Test Cases

Test case ID	Test Case Name
IPCONFIG-1-1-1	IPV4 STATIC IP
IPCONFIG-1-1-3	IPV4 DHCP

Quick Install Test Cases

Test case ID	Test Case Name
QUICK_INSTALL-3-1-4	LAST REBOOT EVENT (STATUS UPDATE)

List of Device Test Specification Documents

Document	Release Date
ONVIF_Advanced_Security_Test_Specification_16.07.pdf	July 2016
ONVIF_Base_Test_Specification_16.07.pdf	July 2016
ONVIF_DeviceIO_Test_Specification_16.07.pdf	July 2016
ONVIF_Feature_Discovery_Specification_16.07.pdf	July 2016
ONVIF_Imaging_Test_Specification_16.07.pdf	July 2016
ONVIF_Media2_Configuration_Test_Specification_16.07.pdf*	July 2016*
ONVIF_PTZ_Using_Media2_Test_Specification_16.07.pdf	July 2016
ONVIF_Real_Time_Streaming_using_Media2_Test_Specification_16.07.pdf	July 2016
ONVIF_Replay_Control_Test_Specification_16.07.pdf	July 2016
ONVIF_Test_Case_Summary_For_Profiles_Conformance_16.07.xlsx	July 2016
ONVIF_Test_Specification_ReleaseNotes_V16.07.docx	July 2016
ONVIF_Test_Specification_ReleaseNotes_V16.07.pdf	July 2016
ONVIF_Profile_Q_Test_Specification_16.01.pdf	Jan 2016
ONVIF_Real_Time_Streaming_Test_Specification_16.01.pdf	Jan 2016
ONVIF_Access_Rules_Test_Specification_15.06.pdf	June 2015
ONVIF_Credential_Test_Specification_15.06.pdf	June 2015
ONVIF_Media_Configuration_Test_Specification_15.06.pdf	June 2015
ONVIF_PTZ_Test_Specification_15.06.pdf	June 2015
ONVIF_Schedule_Test_Specification_15.06.pdf	June 2015
ONVIF_Recording_Control_Test_Specification_v1412.pdf	Dec 2014
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

***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.**