

ONVIF™
Test Specification v19.06
Release Notes

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Overview

Important:

This ONVIF Test Specification v19.06 replaces the previously released version DTT v18.12 along with the errata accepted. As of October 1st, 2019, ONVIF members shall only declare conformance of a product with ONVIF Test Specification v19.06.

- Test cases added
 - 2 test cases in Advanced Security
 - 8 test cases in Recording Search
- Test cases modified
 - 1 test case in Access Control
 - 6 test cases in Device Management
 - 1 test case in Event Management
 - 2 test cases in Media Configuration
 - 6 test cases in Media2 Configuration
 - 2 test cases in Quick Install
 - 3 test cases in PTZ
 - 84 test cases in Real Time Streaming using Media
 - 34 test cases in Real Time Streaming using Media2
 - 3 test cases in Receiver
 - 5 test cases in in Recording
 - 3 test cases in Recording Search
 - 2 test cases in Schedule
- Test cases deleted
 - 1 test case in Media configuration

Deprecated Test Cases

No test cases were deprecated in this version.

Added Test Cases

The following tables list all test cases added in this version.

Advanced Security

Test case ID	Test Case Name
ADVANCED_SECURITY-9-1-1	TLS VERSION MANAGEMENT
ADVANCED_SECURITY-9-1-2	DISABLE TLS VERSION

Recording Search

Test case ID	Test Case Name
SEARCH-2-1-19	RECORDINGS SEARCH - KEEP ALIVE
SEARCH-2-1-20	RECORDINGS SEARCH EXPIRATION
SEARCH-3-1-15	EVENTS SEARCH - KEEP ALIVE
SEARCH-3-1-16	EVENTS SEARCH EXPIRATION
SEARCH-5-1-7	METADATA SEARCH - KEEP ALIVE
SEARCH-5-1-8	METADATA SEARCH EXPIRATION
SEARCH-6-1-14	PTZ SEARCH - KEEP ALIVE
SEARCH-6-1-15	PTZ SEARCH EXPIRATION

Modified Test Cases

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

Access Control

Test case ID	Test Case Name
ACCESSCONTROL-5-1-2	ACCESS CONTROL – ACCESS POINT ENABLED EVENT STATE CHANGE

Device Management

Test case ID	Test Case Name
DEVICE-3-1-5	SYSTEM COMMAND SETSYSTEMDATEANDTIME TEST FOR INVALID DATE
DEVICE-3-1-11	SYSTEM COMMAND SETSYSTEMDATEANDTIME
DEVICE-3-1-12	SYSTEM COMMAND SETSYSTEMDATEANDTIME USING NTP
DEVICE-3-1-13	GET SYSTEM URIS
DEVICE-3-1-14	START SYSTEM RESTORE
DEVICE-3-1-15	START SYSTEM RESTORE – INVALID BACKUP FILE

Event Management

Test case ID	Test Case Name
EVENT-1-1-2	GET EVENT PROPERTIES

Media Configuration

Test case ID	Test Case Name
MEDIA-1-1-5	DYNAMIC MEDIA PROFILE CONFIGURATION
MEDIA-6-1-1	SNAPSHOT URI

Media2 Configuration

Test case ID	Test Case Name
MEDIA2-3-2-2	AAC AUDIO ENCODER CONFIGURATION
MEDIA2-4-1-2	DYNAMIC MEDIA PROFILE CONFIGURATION FOR PTZ
MEDIA2-5-1-1	GET VIDEO SOURCE CONFIGURATION OPTIONS
MEDIA2-5-1-2	GET VIDEO SOURCE CONFIGURATIONS
MEDIA2-6-1-2	GET AUDIO SOURCE CONFIGURATIONS
MEDIA2-6-1-3	AUDIO SOURCE CONFIGURATIONS AND AUDIO SOURCE CONFIGURATION OPTIONS CONSISTENCY

PTZ using Media1

Test case ID	Test Case Name
PTZ-4-1-4	SET AND GET PRESET
PTZ-4-1-5	GOTO PRESET
PTZ-5-1-1	HOME POSITION OPERATIONS (CONFIGURABLE)

Real Time Streaming using Media1

Test case ID	Test Case Name
RTSS-1-1-24	VIDEO ENCODER CONFIGURATION – JPEG RESOLUTION (ALL RESOLUTIONS)
RTSS-1-1-25	VIDEO ENCODER CONFIGURATION – MPEG4 RESOLUTION (ALL RESOLUTIONS)
RTSS-1-1-26	VIDEO ENCODER CONFIGURATION – H.264 RESOLUTION (ALL RESOLUTIONS)
RTSS-1-1-27	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-UNICAST/UDP)
RTSS-1-1-28	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-1-1-29	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP/RTSP/TCP)
RTSS-1-1-30	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (MIX OF TRANSPORT TYPES)
RTSS-1-1-31	MEDIA CONTROL – RTSP/TCP
RTSS-1-1-32	MEDIA STREAMING – RTSP KEEPALIVE (SET_PARAMETER)
RTSS-1-1-33	MEDIA STREAMING – RTSP KEEPALIVE (OPTIONS)
RTSS-1-1-34	MEDIA STREAMING – JPEG (RTP-UNICAST/UDP)
RTSS-1-1-35	MEDIA STREAMING – JPEG (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-1-1-36	MEDIA STREAMING – JPEG (RTP/RTSP/TCP)
RTSS-1-1-37	MEDIA STREAMING – MPEG4 (RTP-UNICAST/UDP)
RTSS-1-1-38	MEDIA STREAMING – MPEG4 (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-1-1-39	MEDIA STREAMING – MPEG4 (RTP/RTSP/TCP)
RTSS-1-1-40	SET SYNCHRONIZATION POINT – MPEG4
RTSS-1-1-41	MEDIA STREAMING – H.264 (RTP-UNICAST/UDP)
RTSS-1-1-42	MEDIA STREAMING – H.264 (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-1-1-43	MEDIA STREAMING – H.264 (RTP/RTSP/TCP)
RTSS-1-1-44	SET SYNCHRONIZATION POINT – H.264

RTSS-1-1-45	MEDIA STREAMING – RTP-UNICAST/RTSP/HTTP/TCP (LINE BREAKS IN BASE64 ENCODING)
RTSS-1-1-46	VIDEO ENCODER CONFIGURATION – JPEG RESOLUTION
RTSS-1-1-47	VIDEO ENCODER CONFIGURATION – MPEG4 RESOLUTION
RTSS-1-1-48	VIDEO ENCODER CONFIGURATION – H.264 RESOLUTION
RTSS-1-1-49	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-UNICAST/UDP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-50	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-UNICAST/RTSP/HTTP/TCP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-51	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP/RTSP/TCP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-52	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (MIX OF TRANSPORT TYPES) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-1-1-53	MEDIA STREAMING – JPEG (VALIDATING RTP HEADER EXTENSION)
RTSS-1-1-54	MEDIA STREAMING – JPEG (RTP-UNICAST/UDP, IPV6)
RTSS-1-1-55	MEDIA STREAMING – JPEG (RTP-UNICAST/RTSP/HTTP/TCP, IPV6)
RTSS-1-1-56	MEDIA STREAMING – JPEG (RTP/RTSP/TCP, IPV6)
RTSS-1-1-57	MEDIA STREAMING – MPEG4 (RTP-UNICAST/UDP, IPV6)
RTSS-1-1-58	MEDIA STREAMING – MPEG4 (RTP-UNICAST/RTSP/HTTP/TCP, IPV6)
RTSS-1-1-59	MEDIA STREAMING – MPEG4 (RTP/RTSP/TCP, IPV6)
RTSS-1-1-60	MEDIA STREAMING – H.264 (RTP-UNICAST/UDP, IPV6)
RTSS-1-1-61	MEDIA STREAMING – H.264 (RTP-UNICAST/RTSPHTTP/TCP, IPV6)
RTSS-1-1-62	MEDIA STREAMING – H.264 (RTP/RTSP/TCP, IPV6)
RTSS-1-2-12	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-Multicast/UDP)
RTSS-1-2-13	MEDIA STREAMING – JPEG (RTP-Multicast/UDP, IPV4)
RTSS-1-2-14	MEDIA STREAMING – MPEG4 (RTP- Multicast /UDP, IPV4)
RTSS-1-2-15	MEDIA STREAMING - H.264 (RTP- Multicast /UDP, IPV4)

RTSS-1-2-16	MEDIA STREAMING – JPEG (RTP-Multicast/UDP, IPV6)
RTSS-1-2-17	MEDIA STREAMING – MPEG4 (RTP-Multicast/UDP, IPV6)
RTSS-1-2-18	MEDIA STREAMING – H.264 (RTP-Multicast/UDP, IPV6)
RTSS-1-2-19	VIDEO ENCODER CONFIGURATION – MULTICAST PORT (IPV4)
RTSS-1-2-20	VIDEO ENCODER CONFIGURATION – MULTICAST ADDRESS (IPV6)
RTSS-1-2-21	VIDEO ENCODER CONFIGURATION - MULTICAST ADDRESS AND PORT IN RTSP SETUP (IPV4)
RTSS-1-2-22	VIDEO ENCODER CONFIGURATION - MULTICAST ADDRESS AND PORT IN RTSP SETUP (IPV6)
RTSS-1-2-23	MEDIA STREAMING – GUARANTEED NUMBER OF VIDEO ENCODER INSTANCES (RTP-MULTICAST/RTSP/HTTP/TCP) (ALL VIDEO SOURCE CONFIGURATIONS)
RTSS-3-1-10	MEDIA STREAMING -JPEG/G.711 (RTP-UNICAST/UDP)
RTSS-3-1-11	MEDIA STREAMING -JPEG/G.711 (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-3-1-12	MEDIA STREAMING -JPEG/G.711 (RTP/RTSP/TCP)
RTSS-3-1-13	MEDIA STREAMING -JPEG/G.726 (RTP-UNICAST/UDP)
RTSS-3-1-14	MEDIA STREAMING -JPEG/G.726 (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-3-1-15	MEDIA STREAMING -JPEG/G.726 (RTP/RTSP/TCP)
RTSS-3-1-16	MEDIA STREAMING -JPEG/AAC (RTP-UNICAST/UDP)
RTSS-3-1-17	MEDIA STREAMING -JPEG/AAC (RTP-UNICAST/RTSP/HTTP/TCP)
RTSS-3-1-18	MEDIA STREAMING -JPEG/AAC (RTP/RTSP/TCP)
RTSS-3-1-19	MEDIA STREAMING -JPEG/G.711 (RTP-UNICAST/UDP, IPV6)
RTSS-3-1-20	MEDIA STREAMING -JPEG/G.711 (RTP-UNICAST/RTSP/HTTP/TCP, IPV6)
RTSS-3-1-21	MEDIA STREAMING -JPEG/G.711 (RTP/RTSP/TCP, IPV6)
RTSS-3-1-22	MEDIA STREAMING -JPEG/G.726 (RTP-UNICAST/UDP, IPV6)
RTSS-3-1-23	MEDIA STREAMING -JPEG/G.726 (RTP-UNICAST/RTSP/HTTP/TCP, IPV6)
RTSS-3-1-24	MEDIA STREAMING -JPEG/G.726 (RTP/RTSP/TCP, IPV6)
RTSS-3-1-25	MEDIA STREAMING -JPEG/AAC (RTP-UNICAST/UDP, IPV6)

RTSS-3-1-26	MEDIA STREAMING -JPEG/AAC (RTP-UNICAST/RTSP/HTTP/TCP, IPv6)
RTSS-3-1-27	MEDIA STREAMING -JPEG/AAC (RTP/RTSP/TCP, IPv6)
RTSS-3-2-16	MEDIA STREAMING -JPEG/G.711 (RTP-MULTICAST/UDP, IPv4)
RTSS-3-2-17	MEDIA STREAMING -JPEG/G.711 (RTP-MULTICAST/UDP, IPv6)
RTSS-3-2-18	MEDIA STREAMING -JPEG/G.726 (RTP-MULTICAST/UDP, IPv4)
RTSS-3-2-19	MEDIA STREAMING -JPEG/G.726 (RTP-MULTICAST/UDP, IPv6)
RTSS-3-2-20	MEDIA STREAMING -JPEG/AAC (RTP-MULTICAST/UDP, IPv4)
RTSS-3-2-21	MEDIA STREAMING -JPEG/AAC (RTP-MULTICAST/UDP, IPv6)
RTSS-3-2-22	VIDEO AND ENCODER CONFIGURATION – DIFFERENT PORTS
RTSS-3-2-23	VIDEO AND ENCODER CONFIGURATION – DIFFERENT ADDRESS
RTSS-4-1-3	NOTIFICATION STREAMING
RTSS-5-1-7	START AND STOP MULTICAST STREAMING – JPEG (IPv4)
RTSS-5-1-8	START AND STOP MULTICAST STREAMING – G.711 (IPv4)
RTSS-5-1-9	START AND STOP MULTICAST STREAMING – JPEG/G.711 (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)

Real Time Streaming using Media2

Test case ID	Test Case Name
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)
MEDIA2_RTSS-2-1-14	MEDIA2 STREAMING – AAC (RTP-UNICAST/RTSP/HTTPS/TCP)
MEDIA2_RTSS-2-1-16	MEDIA2 STREAMING – AAC (RTP-UNICAST/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-2-1-18	MEDIA2 STREAMING – AAC (RTP-UNICAST/RTSP/WEBSOCKETS)
MEDIA2_RTSS_2-2-3	MEDIA STREAMING – AAC (RTP-MULTICAST, IPv4)
MEDIA2_RTSS_2-2-4	MEDIA STREAMING – AAC (RTP-MULTICAST, IPv6)
MEDIA2_RTSS-3-1-4	BACKCHANNEL –G.711 (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-3-1-7	BACKCHANNEL – AAC (RTP-Unicast/UDP, IPv4)
MEDIA2_RTSS-3-1-8	BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
MEDIA2_RTSS-3-1-9	BACKCHANNEL – AAC (RTP/RTSP/TCP, IPv4)
MEDIA2_RTSS-3-1-10	BACKCHANNEL – AAC (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-3-1-11	BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-3-1-12	BACKCHANNEL – AAC (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS-3-1-14	BACKCHANNEL – AAC (RTP-UNICAST/RTSP/WEBSOCKETS)
MEDIA2_RTSS-3-1-16	BACKCHANNEL – AAC (RTP-UNICAST/RTSP/WEBSOCKETS, IPv6)
MEDIA2_RTSS-3-1-18	BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTPS/TCP, IPv4)
MEDIA2_RTSS-3-1-20	BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-3-1-23	BACKCHANNEL STREAMING BY POST – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
MEDIA2_RTSS-3-1-24	BACKCHANNEL STREAMING BY POST – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv6)

MEDIA2_RTSS-3-1-26	BACKCHANNEL STREAMING BY POST – AAC (RTP-Unicast/RTSP/HTTPS/TCP, IPv4)
MEDIA2_RTSS-3-1-28	BACKCHANNEL STREAMING BY POST – AAC (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-5-1-7	MEDIA2 STREAMING – H.26X/AAC (RTP-Unicast/UDP)
MEDIA2_RTSS-5-1-8	MEDIA2 STREAMING – H.26X/AAC (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS-5-1-9	MEDIA2 STREAMING – H.26X/AAC (RTP/RTSP/TCP)
MEDIA2_RTSS-5-1-10	MEDIA2 STREAMING – H.26X/AAC (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-5-1-11	MEDIA2 STREAMING – H.26X/AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-5-1-12	MEDIA2 STREAMING – H.26X/AAC (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS-5-2-3	MEDIA2 STREAMING – H.26X/AAC (RTP-Multicast/UDP)
MEDIA2_RTSS-5-2-4	MEDIA2 STREAMING – H.26X/AAC (RTP-Multicast/UDP, IPv6)

Quick Install

Test case ID	Test Case Name
QUICK_INSTALL-4-1-1	FIRMWARE UPLOAD
QUICK_INSTALL-4-1-2	INVALID FIRMWARE UPLOAD

Receiver

Test case ID	Test Case Name
RECEIVER-2-1-6	CREATE RECEIVER
RECEIVER-2-1-7	CREATE RECEIVER – PERSISTENCE
RECEIVER-2-1-9	DELETE RECEIVER

Recording

Test case ID	Test Case Name
RECORDING-2-1-20	START RECORDING ON RECEIVER
RECORDING-2-1-22	STOP RECORDING ON RECEIVER - PUT JOB IN IDLE STATE
RECORDING-2-1-23	STOP RECORDING ON RECEIVER - NEVER CONNECTED MODE
RECORDING-2-1-25	STOP RECORDING ON RECEIVER - DELETE JOB
RECORDING-2-1-27	MODIFY MEDIA ATTRIBUTE WHILE RECORDING - RECEIVER

Recording Search

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)

Schedule

Test case ID	Test Case Name
SCHEDULE-3-1-6	MODIFY SCHEDULE
SCHEDULE-3-1-7	DELETE SCHEDULE

Deleted Test Cases

The following tables list all test cases deleted in this version.

Media Configuration

Test case ID	Test Case Name
MEDIA-4-1-4	PTZ CONFIGURATION

List of Device Test Specification Documents v19.06

Document	Release Date
ONVIF_Test_Case_Summary_For_Profiles_Conformance_19.06.xlsx	Jun-19
ONVIF_Credential_Device_Test_Specification_19.06.pdf	Jun-19
ONVIF_Feature_Discovery_Specification_19.06.pdf	Jun-19
ONVIF_Media2_Configuration_Device_Test_Specification_19.06.pdf	Jun-19
ONVIF_Media_Configuration_Test_Specification_19.06.pdf	Jun-19
ONVIF_Real_Time_Streaming_Test_Specification_19.06.pdf	Jun-19
ONVIF_Real_Time_Streaming_using_Media2_Device_Test_Specification_19.06.pdf	Jun-19
ONVIF_Receiver_Test_Specification_19.06.pdf	Jun-19
ONVIF_Recording_Search_Test_Specification_19.06.pdf	Jun-19
ONVIF_Security_Configuration_Test_Specification_19.06.pdf	Jun-19
ONVIF_Access_Control_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Access_Rules_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Analytics_Engine_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Base_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Imaging_Test_Specification_18.12.pdf	Dec-18
ONVIF_Profiles_Conformance_Test_Specification_18.12.pdf	Dec-18
ONVIF_PTZ_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Replay_Control_Test_Specification_18.12.pdf	Dec-18
ONVIF_Schedule_Test_Specification_18.12.pdf	Dec-18
ONVIF_DeviceIO_Test_Specification_18.06SR1.pdf	Oct-18
ONVIF_Door_Control_Device_Test_Specification_18.06.pdf	Jun-18
ONVIF_Event_Handling_Test_Specification_18.06.pdf	Jun-18
ONVIF_Profile_Q_Test_Specification_18.06.pdf	Jun-18
ONVIF_Provisioning_Device_Test_Specification_18.06.pdf	Jun-18
ONVIF_Recording_Control_Test_Specification_18.06.pdf	Jun-18
ONVIF_Thermal_Device_Test_Specification_18.06.pdf	Jun-18
ONVIF_PTZ_Using_Media2_Device_Test_Specification_17.12.pdf	Dec-17