

**ONVIF<sup>™</sup>**  
**Test Specification v17.06**  
**Release Notes**

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# Overview

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**Important:**

This ONVIF Test Specification v17.06 replaces the previously released version 17.01 along with the errata accepted. As of October 1<sup>st</sup> 2017 ONVIF members shall only declare conformance of a product with ONVIF specifications regarding this Test Specification v17.01.

- Test Cases Added
  - 44 test cases in Real time streaming using Media2
  - 1 test case in Device IO
  - 2 test cases in PTZ using Media2
  - 5 test cases in Analytics
  - 3 test cases in Device management
  - 4 test cases in Media2 configuration
  - 1 test case in Replay
- Test cases modified
  - 3 test cases in Device management
  - 8 test cases in Media2 configuration
  - 10 test cases in PTZ using Media2
  - 4 test cases in Real Time Streaming using Media2
  - 1 test case in Quick Install
  - 4 test cases in Replay
  - 4 test cases in Device IO
  - 3 test cases 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_1-1-8	MEDIA2 STREAMING – H.265 (RTP-Unicast/UDP)
MEDIA2_RTSS_1-1-9	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS_1-1-10	MEDIA2 STREAMING – H.265 (RTP/RTSP/TCP)
MEDIA2_RTSS_1-1-11	MEDIA2 SET SYNCHRONIZATION POINT – H.265
MEDIA2_RTSS_1-1-12	MEDIA2 STREAMING – H.265 (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS_1-1-13	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS_1-1-14	MEDIA2 STREAMING – H.265 (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS_1-1-15	MEDIA2 STREAMING – H.264 (RTP-Unicast/RTSP/HTTPS/TCP)
MEDIA2_RTSS_1-1-16	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/HTTPS/TCP)
MEDIA2_RTSS_1-1-17	MEDIA2 STREAMING – H.264 (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS_1-1-18	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-1-1-19	MEDIA2 STREAMING – G.711 (RTP-Unicast/UDP)
MEDIA2_RTSS-1-1-20	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-1-1-21	MEDIA2 STREAMING – H.264 (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-1-1-22	MEDIA2 STREAMING – H.265 (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-3-1-1	BACKCHANNEL – G.711 (RTP-Unicast/UDP, IPv4)
MEDIA2_RTSS-3-1-2	BACKCHANNEL – G.711 (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
MEDIA2_RTSS-3-1-3	BACKCHANNEL – G.711 (RTP/RTSP/TCP, IPv4)
MEDIA2_RTSS-3-1-4	BACKCHANNEL – G.711 (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-3-1-5	BACKCHANNEL – G.711 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-3-1-6	BACKCHANNEL – G.711 (RTP/RTSP/TCP, 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-3-1-13	BACKCHANNEL – G.711 (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-3-1-14	BACKCHANNEL – AAC (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-3-1-15	BACKCHANNEL – G.711 (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-3-1-16	BACKCHANNEL – AAC (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-3-2-1	BACKCHANNEL – G.711 (RTP-Multicast/UDP, IPv4)
MEDIA2_RTSS-3-2-2	BACKCHANNEL – G.711 (RTP-Multicast/UDP, IPv6)
MEDIA2_RTSS-3-2-3	BACKCHANNEL – AAC (RTP-Multicast/UDP, IPv4)
MEDIA2_RTSS-3-2-4	BACKCHANNEL – AAC (RTP-Multicast/UDP, IPv6)
MEDIA2_RTSS-4-1-1	METADATA STREAMING (RTP-Unicast/UDP)
MEDIA2_RTSS-4-1-2	METADATA STREAMING (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS-4-1-3	METADATA STREAMING (RTP/RTSP/TCP)
MEDIA2_RTSS-4-1-4	METADATA STREAMING - SET SYNCHRONIZATION POINT
MEDIA2_RTSS-4-1-5	METADATA STREAMING (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-4-1-6	METADATA STREAMING (RTP-Unicast/RTSP/HTTP/TCP,IPv6)
MEDIA2_RTSS-4-1-7	METADATA STREAMING (RTP/RTSP/TCP, IPv6)
MEDIA2_RTSS-4-2-1	METADATA STREAMING (RTP-Multicast/UDP)
MEDIA2_RTSS-4-2-2	METADATA STREAMING (RTP-Multicast/UDP, IPv6)

#### Device IO Test Case

Test case ID	Test Case Name
DEVICEIO-4-1-1	IO GET AUDIO SOURCES

### PTZ using Media2 test cases

Test case ID	Test Case Name
MEDIA2_PTZ-4-1-2	ABSOLUTE PAN/TILT GENERIC POSITION SPACE
MEDIA2_PTZ-4-1-3	ABSOLUTE ZOOM GENERIC POSITION SPACE

### Analytics test cases

Test case ID	Test Case Name
ANALYTICS-1-1-1	GET SUPPORTED RULES (MOTION REGION DETECTOR)
ANALYTICS-1-1-2	GET MOTION REGION DETECTOR RULE OPTIONS
ANALYTICS-1-1-3	CREATE MOTION REGION DETECTOR RULE
ANALYTICS-1-1-4	MODIFY MOTION REGION DETECTOR RULE
ANALYTICS-2-1-1	MOTION REGION DETECTOR RULE

### Device management test cases

Test case ID	Test Case Name
DEVICE-1-1-30	GET SERVICES AND GET CAPABILITIES CONSISTENCY
DEVICE-2-1-36	GET DYNAMIC DNS CONFIGURATION
DEVICE-2-1-37	SET DYNAMIC DNS CONFIGURATION

### Media2 configuration test cases

Test case ID	Test Case Name
MEDIA2-2-3-5	VIDEO ENCODER CONFIGURATION OPTIONS
MEDIA2-1-1-4	GET PROFILES
MEDIA2-7-1-1	MEDIA2 SERVICE CAPABILITIES
MEDIA2-7-1-2	GET SERVICES AND GET MEDIA2 SERVICE CAPABILITIES CONSISTENCY

**Replay test cases**

<b>Test case ID</b>	<b>Test Case Name</b>
REPLAY-4-1-1	REPLAY CONFIGURATION



## Modified Test Cases

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

### Device management test cases

Test case ID	Test Case Name
DEVICE-3-1-4	SYSTEM COMMAND SETSYSTEMDATEANDTIME TEST FOR INVALID TIMEZONE
DEVICE-3-1-5	SYSTEM COMMAND SETSYSTEMDATEANDTIME TEST FOR INVALID DATE
DEVICE-9-1-6	LAST CLOCK SYNCHRONIZATION CHANGE EVENT (SETSYSTEMDATEANDTIME)

### Quick Install test cases

Test case ID	Test Case Name
QUICK_INSTALL-1-1-1	FACTORY DEFAULT STATE VERIFICATION

### 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

### Media2 configuration test cases

Test case ID	Test Case Name
MEDIA2-1-1-1	READY TO USE MEDIA PROFILE FOR VIDEO STREAMING
MEDIA2-2-2-5	MODIFY ALL SUPPORTED VIDEO SOURCE CONFIGURATIONS
MEDIA2-3-2-1	AUDIO ENCODER CONFIGURATION
MEDIA2-3-2-2	AAC AUDIO ENCODER CONFIGURATION
MEDIA2-3-4-4	MODIFY ALL SUPPORTED AUDIO DECODER CONFIGURATIONS
MEDIA2-2-3-1	VIDEO ENCODER CONFIGURATION
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

### 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 POSITIONS OPERATIONS (CONFIGURABLE) USING MEDIA2 PROFILE
MEDIA2_PTZ-3-1-2	PTZ HOME POSITIONS OPERATIONS (FIXED) USING MEDIA2 PROFILE
MEDIA2_PTZ-4-1-1	ABSOLUTE PAN/TILT POSITION SPACE
MEDIA2_PTZ-4-2-1	CONTINUOUS PAN/TILT VELOCITY SPACE

### 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 (RTSPMulticast, IPv6)
MEDIA2_RTSS-1-2-3	MEDIA2 STREAMING - H.265 (RTSPMulticast, IPv4)
MEDIA2_RTSS-1-2-4	MEDIA2 STREAMING - H.265 (RTSPMulticast, IPv6)

### Schedule test cases

Test case ID	Test Case Name
SCHEDULE-3-1-10	CREATE SCHEDULE - NOT EMPTY SCHEDULE TOKEN
SCHEDULE-5-1-10	CREATE SPECIAL DAY GROUP - NOT EMPTY SPECIAL DAY GROUP TOKEN
SCHEDULE-6-1-3	CHANGE SCHEDULE STATE - CHANGE SPECIAL DAYS

### 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)

## List of Device Test Specification Documents

Document	Release Date
ONVIF_Access_Control_Test_Specification_v13.12.pdf	Dec 2013
ONVIF_Receiver_Test_Specification_v13.12.pdf	Dec 2013
ONVIF_Door_Control_Test_Specification_v14.06.pdf	June 2014
ONVIF_Recording_Control_Test_Specification_v14.12.pdf	Dec 2014
ONVIF_Recording_Search_Test_Specification_v14.12.pdf	Dec 2014
ONVIF_Media_Configuration_Test_Specification_15.06.pdf	June 2015
ONVIF_Real_Time_Streaming_Test_Specification_v17.01.pdf	Jan 2017
ONVIF_Access_Rules_Test_Specification_v17.01.pdf	Jan 2017
ONVIF_Base_Device_Test_Specification_17.06.pdf	June 2017
ONVIF_Event_Handling_Test_Specification_v17.06.pdf	June 2017
ONVIF_Imaging_Test_Specification_v17.06.pdf	June 2017
ONVIF_Replay_Control_Test_Specification_v17.06.pdf	June 2017
ONVIF_Advanced_Security_Test_Specification_v17.06.pdf	June 2017
ONVIF_Profile_Q_Test_Specification_v17.06.pdf	June 2017
ONVIF_Profiles_Conformance_Test_Specification_v17.06.pdf	June 2017
ONVIF_PTZ_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_Analytics_Engine_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_Credential_Test_Specification_v17.06.pdf	June 2017
ONVIF_DeviceIO_Test_Specification_v17.06.pdf	June 2017
ONVIF_Feature_Discovery_Specification_v17.06.pdf	June 2017
ONVIF_Media2_Configuration_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_PTZ_Using_Media2_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_Real_Time_Streaming_using_Media2_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_Schedule_Device_Test_Specification_v17.06.pdf	June 2017
ONVIF_Test_Case_Summary_For_Profiles_Conformance_v17.06.xls	June 2017