

ONVIF™

Test Specification v25.12

Release Notes

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Overview

Important:

This ONVIF Test Specification v25.12 replaces the previously released version DTT v25.06 along with the errata accepted. As of April 1st 2025, ONVIF members shall only declare conformance of a product with ONVIF Test Specification v25.12.

- Test cases added
 - 6 test cases in Media2 streaming
 - 18 test cases in Real time streaming using Media2
 - 5 test cases in Uplink
- Test cases modified
 - 1 test case in Uplink
- Test cases removed
 - None

Added Test Cases

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

Media2 streaming

Test Case ID	Test Case Name
MEDIA2-2-1-10	READY TO USE MEDIA PROFILE FOR VIDEO STREAMING (H.264)
MEDIA2-13-1-1	SET EQ PRESETS
MEDIA2-13-1-2	SET EQ PRESETS - SCHEDULE
MEDIA2-13-1-3	SET EQ PRESETS - FREQUENCY DECIBEL
MEDIA2-14-1-1	GET AND SET WEBRTC CONFIGURATIONS
MEDIA2-14-1-2	SET WEBRTC CONFIGURATIONS FAULTS

Real time streaming using Media2

Test Case ID	Test Case Name
MEDIA2_RTSS-1-3-1	MEDIA2 STREAMING – H.264 (WebRTC, Default Profile)
MEDIA2_RTSS-1-3-2	VIDEO ENCODER INSTANCES (WebRTC, Non-Default Profile)
MEDIA2_RTSS-1-3-3	VIDEO ENCODER INSTANCES - H.264 (WebRTC, Non-Default Profile)
MEDIA2_RTSS-1-3-4	MEDIA2 STREAMING – H.264 (WebRTC, FIR and PLI)
MEDIA2_RTSS-2-3-1	MEDIA2 AUDIO STREAMING – G.711 (WebRTC, Default Profile)
MEDIA2_RTSS-2-3-2	MEDIA2 AUDIO STREAMING – OPUS (WebRTC, Default Profile)
MEDIA2_RTSS-3-3-1	MEDIA2 STREAMING – BACKCHANNEL G.711 (WebRTC, Default Profile)
MEDIA2_RTSS-3-3-2	MEDIA2 STREAMING – BACKCHANNEL OPUS (WebRTC, Default Profile)
MEDIA2_RTSS-5-3-1	MEDIA2 STREAMING – H.26X/G.711 (WebRTC, Default Profile)
MEDIA2_RTSS-5-3-2	MEDIA2 STREAMING – H.26X/OPUS (WebRTC, Default Profile)
MEDIA2_RTSS-6-3-1	MEDIA2 STREAMING – BACKCHANNEL G.711 AND H.26X VIDEO AND G.711/OPUS AUDIO (WebRTC, Default Profile)
MEDIA2_RTSS-7-1-1	MEDIA2 STREAMING – WebRTC ConnectionManagement
MEDIA2_RTSS-7-1-2	MEDIA2 STREAMING – WebRTC Signaling Server Error Response
MEDIA2_RTSS-7-1-3	MEDIA2 STREAMING – WebRTC Session Extension
MEDIA2_RTSS-7-1-4	WebSocket Connection to Signaling Server with access token authentication (OAuthClientCredentials, client_secret_basic)
MEDIA2_RTSS-7-1-5	WebSocket Connection to Signaling Server with access token authentication (OAuthClientCredentials, private_key_jwt)
MEDIA2_RTSS-7-1-6	WebSocket Connection to Signaling Server with access token authentication (OAuthClientCredentials, client_secret_basic) - Invalid Signaling Server Certificate
MEDIA2_RTSS-7-1-7	WebSocket Connection to Signaling Server with access token authentication (OAuthClientCredentials, client_secret_basic) - Invalid Authentication Server Certificate

Uplink

Test Case ID	Test Case Name
UPLINK-3-1-2	Uplink over WebSocket with access token authentication (OAuthClientCredentials, client_secret_basic)
UPLINK-3-1-3	Uplink over WebSocket with access token authentication (OAuthClientCredentials, private_key_jwt)
UPLINK-3-1-4	Uplink over WebSocket with mTLS Authentication - Invalid Server Certificate
UPLINK-3-1-5	Uplink over WebSocket with access token authentication (OAuthClientCredentials, client_secret_basic) - Invalid Uplink Client Certificate
UPLINK-3-1-6	Uplink over WebSocket with access token authentication (OAuthClientCredentials, client_secret_basic) – Invalid Authentication Server Certificate

Test Cases modified

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

Uplink

Test Case ID	Test Case Name
UPLINK-3-1-1	Uplink over WebSocket with mTLS Authentication

List of Device Test Specification Documents v25.12

Document	Release Date
ONVIF_Access_Control_Device_Test_Specification_21.06.pdf	Jun-21
ONVIF_Access_Policy_Device_Test_Specification_21.12.pdf*	Dec-21
ONVIF_Access_Rules_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Analytics_Engine_Device_Test_Specification_24.06.pdf	Jun-24
ONVIF_Base_Device_Test_Specification_25.06.pdf	Jun-25
ONVIF_Credential_Device_Test_Specification_20.12.pdf	Dec-20
ONVIF_DeviceIO_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Device_Feature_Discovery_Specification_25.06.pdf	Jun-25
ONVIF_Door_Control_Device_Test_Specification_21.06.pdf	Jun-21
ONVIF_Event_Handling_Device_Test_Specification_21.12.pdf	Dec-21
ONVIF_Export_File_Format_Device_Test_Specification_21.06.pdf	Jun-21
ONVIF_Imaging_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Media2_Configuration_Device_Test_Specification_25.12.pdf	Dec-25
ONVIF_Media_Configuration_Device_Test_Specification_24.06.pdf	Jun-24
ONVIF_Profiles_Conformance_Device_Test_Specification_21.12.pdf	Dec-21
ONVIF_PTZ_Device_Test_Specification_24.12.pdf	Dec-24
ONVIF_Real_Time_Streaming_Device_Test_Specification_24.12.pdf	Dec-24
ONVIF_Real_Time_Streaming_using_Media2_Device_Test_Specification_25.12.pdf	Dec-25
ONVIF_Receiver_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Recording_Control_Device_Test_Specification_21.06.pdf	Jun-21
ONVIF_Recording_Search_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Replay_Control_Device_Test_Specification_19.12.pdf	Dec-19
ONVIF_Security_Configuration_Device_Test_Specification_25.06.pdf	Jun-25
ONVIF_Schedule_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Thermal_Device_Test_Specification_18.06.pdf	Jun-18
ONVIF_Add-ons_Conformance_Device_Test_Specification_24.12.pdf	Dec-24
ONVIF_Uplink_Device_Test_Specification_25.12.pdf*	Dec-25

***Draft specification, subject to change.**