

ONVIF™
Test Specification v24.12
Release Notes

© 2024 by ONVIF, Inc. All rights reserved.

Recipients of this document may copy, distribute, publish, or display this document so long as this copyright notice, license and disclaimer are retained with all copies of the document. No license is granted to modify this document.

THIS DOCUMENT IS PROVIDED "AS IS," AND THE CORPORATION AND ITS MEMBERS AND THEIR AFFILIATES, MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THIS DOCUMENT ARE SUITABLE FOR ANY PURPOSE; OR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

IN NO EVENT WILL THE CORPORATION OR ITS MEMBERS OR THEIR AFFILIATES BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RELATING TO ANY USE OR DISTRIBUTION OF THIS DOCUMENT, WHETHER OR NOT (1) THE CORPORATION, MEMBERS OR THEIR AFFILIATES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR (2) SUCH DAMAGES WERE REASONABLY FORESEEABLE, AND ARISING OUT OF OR RELATING TO ANY USE OR DISTRIBUTION OF THIS DOCUMENT. THE FOREGOING DISCLAIMER AND LIMITATION ON LIABILITY DO NOT APPLY TO, INVALIDATE, OR LIMIT REPRESENTATIONS AND WARRANTIES MADE BY THE MEMBERS AND THEIR RESPECTIVE AFFILIATES TO THE CORPORATION AND OTHER MEMBERS IN CERTAIN WRITTEN POLICIES OF THE CORPORATION.

Overview

Important:

This ONVIF Test Specification v24.12 replaces the previously released version DTT v24.06 along with the errata accepted. As of April 1st 2025, ONVIF members shall only declare conformance of a product with ONVIF Test Specification v24.12.

- Test cases added
 - 33 test cases in Audio

- Test cases modified
 - 8 test cases in Media2 Configuration
 - 3 test cases in Real Time Streaming using Media1
 - 3 test cases in PTZ using Media1
 - 2 test cases in PTZ using Media2

- Test cases removed
 - None

Test Cases added

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

Audio (Media2)

Test Case ID	Test Case Name
MEDIA2_RTSS-2-1-22	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/UDP)
MEDIA2_RTSS-2-1-23	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/HTTP/TCP)
MEDIA2_RTSS-2-1-24	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/HTTPS/TCP)
MEDIA2_RTSS-2-1-25	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-2-1-26	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-2-1-27	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-2-1-28	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-2-1-29	MEDIA2 AUDIO STREAMING – OPUS (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-2-2-5	MEDIA2 AUDIO STREAMING – OPUS (RTPMulticast,IPv4)
MEDIA2_RTSS-2-2-6	MEDIA2 AUDIO STREAMING – OPUS (RTPMulticast,IPv6)
MEDIA2_RTSS-3-1-29	BACKCHANNEL – OPUS (RTP-Unicast/UDP, IPv4)
MEDIA2_RTSS-3-1-30	BACKCHANNEL STREAMING BY POST – OPUS (RTP-Unicast/RTSP/HTTP/TCP, IPv4)
MEDIA2_RTSS-3-1-31	BACKCHANNEL STREAMING BY POST – OPUS (RTP-Unicast/RTSP/HTTPS/TCP, IPv4)
MEDIA2_RTSS-3-1-32	BACKCHANNEL – OPUS (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-3-1-33	BACKCHANNEL – OPUS (RTP-Unicast/ UDP, IPv4)
MEDIA2_RTSS-3-1-34	BACKCHANNEL – OPUS (RTP-Unicast/UDP, IPv6)
MEDIA2_RTSS-3-1-35	BACKCHANNEL STREAMING BY POST – OPUS (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
MEDIA2_RTSS-3-1-36	BACKCHANNEL STREAMING BY POST – OPUS (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-3-1-37	BACKCHANNEL – OPUS (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-3-1-38	BACKCHANNEL – OPUS (RTP/RTSP/TCP,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-4-1-8	METADATA STREAMING (RTP-Unicast/RTSP/HTTPS/TCP)
MEDIA2_RTSS-4-1-9	METADATA STREAMING (RTP-Unicast/RTSP/HTTPS/TCP, IPv6)
MEDIA2_RTSS-4-1-10	METADATA STREAMING (RTP-Unicast/RTSP/WebSockets)
MEDIA2_RTSS-4-1-11	METADATA STREAMING (RTP-Unicast/RTSP/WebSockets, IPv6)
MEDIA2_RTSS-4-2-1	METADATA STREAMING (RTP-Multicast/UDP)
MEDIA2_RTSS-4-2-2	METADATA STREAMING (RTP-Multicast/UDP, IPv6)

Modified Test Cases

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

Media2 Configuration

Test Case ID	Test Case Name
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
MEDIA2-2-2-7	PROFILES AND VIDEO SOURCE CONFIGURATION OPTIONS CONSISTENCY
MEDIA2-1-1-2	CREATE MEDIA PROFILE WITH PRE-DEFINED CONFIGURATION

Real time streaming using Media1

Test Case ID	Test Case Name
RTSS-1-1-46	VIDEO ENCODER CONFIGURATION – JPEG RESOLUTION
RTSS-1-1-48	VIDEO ENCODER CONFIGURATION – H.264 RESOLUTION
RTSS-1-1-53	MEDIA STREAMING – JPEG (VALIDATING RTP HEADER EXTENSION)

PTZ using Media1

Test Case ID	Test Case Name
PTZ-3-1-1	PTZ ABSOLUTE MOVE
PTZ-3-1-3	PTZ RELATIVE MOVE
PTZ-3-1-4	PTZ CONTINUOUS MOVE

PTZ using Media2

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

List of Device Test Specification Documents v24.12

Document	Release Date
ONVIF_Access_Control_Device_Test_Specification_20.12.pdf	Dec-20
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_Authentication_Behavior_Device_Test_Specification_19.06.pdf	Jun-19
ONVIF_Base_Device_Test_Specification_21.12.pdf	Dec-21
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_20.12.pdf	Dec-20
ONVIF_Device_Test_Specification_Description_17.06.pdf	Jun-17
ONVIF_Door_Control_Device_Test_Specification_20.12.pdf	Dec-20
ONVIF_Event_Handling_Device_Test_Specification_20.06.pdf	Jun-20
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_24.12.pdf	Dec-24
ONVIF_Media_Configuration_Device_Test_Specification_24.06.pdf	Jun-24
ONVIF_Profiles_Conformance_Device_Test_Specification_20.12.pdf	Dec-20
ONVIF_Provisioning_Device_Test_Specification_18.06.pdf	Jun-18
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_24.12.pdf	Dec-24
ONVIF_Receiver_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Recording_Control_Device_Test_Specification_20.06.pdf	Jun-20
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_20.12.pdf	Dec-20
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_23.06.pdf	Jun-23
ONVIF_Uplink_Device_Test_Specification_23.06.pdf*	Jun-23

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