

ONVIF™
Test Specification v23.06
Release Notes

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Overview

Important:

This ONVIF Test Specification v23.06 replaces the previously released version DTT v22.12 along with the errata accepted. As of October 1st, 2023, ONVIF members shall only declare conformance of a product with ONVIF Test Specification v23.06.

- Test cases added
 - 4 test cases in Advanced security configuration
 - 5 test cases in Media2 configuration
 - 1 test case in Cloud Uplink

- Test cases modified
 - 18 test cases in Security Configuration
 - 7 test cases in Event handling
 - 52 test cases in Real streaming
 - 2 test cases in Real streaming using Media2
 - 1 test case in Media2 configuration

- Test cases removed
 - 2 test cases in Advanced security configuration
 - 2 test cases in Real time streaming using Media2

Added Test Cases

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

Advanced security configuration

Test Case ID	Test Case Name
ADVANCED_SECURITY-6-2-3	Upload Encrypted PKCS8
ADVANCED_SECURITY-6-2-4	Upload Encrypted PKCS8 – Using Passphrase Management
ADVANCED_SECURITY-6-3-5	Upload PKCS12 – Decryption Failed
ADVANCED_SECURITY-6-3-6	Upload PKCS12 – Using Passphrase Storage

Cloud Uplink

Test Case ID	Test Case Name
UPLINK-4-1-1	GET SERVICES AND GET UPLINK SERVICE CAPABILITIES CONSISTENCY

Modified Test Cases

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

Advanced security configuration

Test Case ID	Test Case Name
ADVANCED_SECURITY-2-1-27	CreateSelfSignedCertificate with PKCS#12
ADVANCED_SECURITY-2-1-28	Create PKCS#10 request with PKCS#12
ADVANCED_SECURITY-3-1-5	Get Assigned Server Certificates – self-signed
ADVANCED_SECURITY-3-1-6	Get Assigned Server Certificates – CA
ADVANCED_SECURITY-3-1-7	Remove Server Certificate Assignment – self-signed
ADVANCED_SECURITY-3-1-8	Remove Server Certificate Assignment – CA
ADVANCED_SECURITY-3-2-5	Basic TLS Handshake with Replace Server Certification Path and PKCS#12
ADVANCED_SECURITY-3-3-1	TLS client authentication – self-signed TLS server certificate with on-device RSA key pair
ADVANCED_SECURITY-3-3-2	CRL processing with on-device RSA key pair
ADVANCED_SECURITY-3-3-3	Replace certification path validation policy assignment
ADVANCED_SECURITY-5-1-1	Security Configuration Service Capabilities
ADVANCED_SECURITY-6-1-1	Upload Passphrase
ADVANCED_SECURITY-6-1-2	Delete Passphrase
ADVANCED_SECURITY-6-3-1	Upload PKCS12 – no key pair exists
ADVANCED_SECURITY-6-3-4	Upload PKCS12 - verify key and certificate
ADVANCED_SECURITY-8-1-4	Create certification path validation policy
ADVANCED_SECURITY-8-1-5	Get certification path validation policy
ADVANCED_SECURITY-8-1-6	Delete certification path validation policy

Real time streaming

Test Case ID	Test Case Name
RTSS-2-1-37	MEDIA STREAMING – G.711 (RTP-Unicast/UDP, IPv6)
RTSS-2-1-38	MEDIA STREAMING – G.711 (RTP-Unicast/RTSP/HTTP/ TCP, IPv6)
RTSS-2-1-39	MEDIA STREAMING – G.711 (RTP/RTSP/TCP, IPv6)
RTSS-2-1-40	MEDIA STREAMING – G.726 (RTP-Unicast/UDP, IPv6)
RTSS-2-1-41	MEDIA STREAMING – G.726 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
RTSS-2-1-42	MEDIA STREAMING – G.726 (RTP/RTSP/TCP, IPv6)
RTSS-2-1-43	MEDIA STREAMING – AAC (RTP-Unicast/UDP, IPv6)
RTSS-2-1-44	MEDIA STREAMING – AAC (RTP-Unicast/RTSP/HTTP/ TCP, IPv6)
RTSS-2-1-45	MEDIA STREAMING – AAC (RTP/RTSP/TCP, IPv6)
RTSS-2-1-46	AUDIO STREAMING – G.711 (RTP-Unicast/UDP, IPv6)
RTSS-2-1-47	AUDIO STREAMING – G.711 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
RTSS-2-1-48	AUDIO STREAMING – G.711 (RTP/RTSP/TCP, IPv6)
RTSS-2-1-49	AUDIO STREAMING – G.726 (RTP-Unicast/UDP, IPv6)
RTSS-2-1-50	AUDIO STREAMING – G.726 (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
RTSS-2-1-51	AUDIO STREAMING – G.726 (RTP/RTSP/TCP, IPv6)
RTSS-2-1-52	AUDIO STREAMING – AAC (RTP-Unicast/UDP, IPv6)
RTSS-2-1-53	AUDIO STREAMING – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv6)
RTSS-2-1-54	AUDIO STREAMING – AAC (RTP/RTSP/TCP, IPv6)
RTSS-2-2-11	MEDIA STREAMING – G.711 (RTP-Multicast/UDP, IPv4)
RTSS-2-2-12	MEDIA STREAMING – G.711 (RTP-Multicast/UDP, IPv6)
RTSS-2-2-13	MEDIA STREAMING – G.726 (RTP-Multicast/UDP, IPv4)
RTSS-2-2-14	MEDIA STREAMING – G.726 (RTP-Multicast/UDP, IPv6)
RTSS-2-2-15	MEDIA STREAMING – AAC (RTP-Multicast/UDP, IPv4)

RTSS-2-2-16	MEDIA STREAMING – AAC (RTP-Multicast/UDP,IPv6)
RTSS-3-1-10	MEDIA STREAMING – VIDEO AND G.711 AUDIO (RTPUnicast/UDP)
RTSS-3-1-11	MEDIA STREAMING – VIDEO AND G.711 AUDIO (RTPUnicast/RTSP/HTTP/TCP)
RTSS-3-1-12	MEDIA STREAMING – VIDEO AND G.711 AUDIO (RTP/RTSP/TCP)
RTSS-3-1-13	MEDIA STREAMING – VIDEO AND G.726 AUDIO (RTPUnicast/UDP)
RTSS-3-1-14	MEDIA STREAMING – VIDEO AND G.726 AUDIO (RTPUnicast/RTSP/HTTP/TCP)
RTSS-3-1-15	MEDIA STREAMING – VIDEO AND G.726 AUDIO (RTP/RTSP/TCP)
RTSS-3-1-16	MEDIA STREAMING – VIDEO AND AAC AUDIO (RTPUnicast/UDP)
RTSS-3-1-17	MEDIA STREAMING – VIDEO AND AAC AUDIO (RTPUnicast/ RTSP/HTTP/TCP)
RTSS-3-1-18	MEDIA STREAMING – VIDEO AND AAC AUDIO (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 – VIDEO AND G.711 AUDIO (RTPMulticast/ UDP, IPv4)
RTSS-3-2-17	MEDIA STREAMING – VIDEO AND G.711 AUDIO (RTPMulticast/ UDP, IPv6)
RTSS-3-2-19	MEDIA STREAMING – VIDEO AND G.726 AUDIO (RTPMulticast/UDP, IPv6)
RTSS-3-2-21	MEDIA STREAMING – VIDEO AND AAC AUDIO (RTPMulticast/UDP, IPv6)
RTSS-3-2-23	VIDEO AND AUDIO ENCODER CONFIGURATION – DIFFERENT ADDRESS
RTSS-5-1-7	START AND STOP MULTICAST STREAMING – JPEG (IPv4)
RTSS-5-1-9	START AND STOP MULTICAST STREAMING – VIDEO AND G.711 AUDIO (IPv4)

RTSS-5-1-10	START AND STOP MULTICAST STREAMING – G.711 (IPv4, ONLY AUDIO PROFILE)
RTSS-5-1-11	START AND STOP MULTICAST STREAMING – G.726 (IPv4, ONLY AUDIO PROFILE)
RTSS-5-1-12	START AND STOP MULTICAST STREAMING – AAC (IPv4, ONLY AUDIO PROFILE)

Media2 Configuration

Test Case ID	Test Case Name
MEDIA2-2-2-5	MODIFY ALL SUPPORTED VIDEO SOURCE CONFIGURATIONS

Event handling

Test Case ID	Test Case Name
EVENT-7-2-1	MQTT EVENTS PUBLISHING (MQTT, QoS=0)
EVENT-7-2-2	MQTT EVENTS PUBLISHING (MQTT TLS, QoS=0)
EVENT-7-2-3	MQTT EVENTS PUBLISHING (MQTT OVER WEBSOCKET, QoS=0)
EVENT-7-2-4	MQTT EVENTS PUBLISHING (MQTT TLS OVER WEBSOCKET, QoS=0)
EVENT-7-2-5	MQTT EVENTS PUBLISHING (MQTT, QoS=1)
EVENT-7-2-6	MQTT EVENTS PUBLISHING (MQTT, QoS=2)
EVENT-7-2-7	MQTT EVENTS PUBLISHING - PUBLISH FILTER (MQTT, QoS=0)

Test Cases removed

Real time streaming using Media2

Test Case ID	Test Case Name
MEDIA2_RTSS-1-1-4	MEDIA2 SET SYNCHRONIZATION POINT – H.264
MEDIA2_RTSS-1-1-11	MEDIA2 SET SYNCHRONIZATION POINT – H.265

Security configuration

Test Case ID	Test Case Name
ADVANCED_SECURITY-6-2-2	Upload PKCS8
ADVANCED_SECURITY-6-3-2	Upload PKCS12

List of Device Test Specification Documents v23.06

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_20.12.pdf	Dec-20
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_23.06.pdf	Jun-23
ONVIF_Media_Configuration_Device_Test_Specification_20.12.pdf	Dec-20
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_20.06.pdf	Jun-20
ONVIF_Real_Time_Streaming_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Real_Time_Streaming_using_Media2_Device_Test_Specification_23.06.pdf	Jun-23
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.**