

**ONVIF<sup>™</sup>**  
**Test Specification v20.06**  
**Release Notes**

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# Overview

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## **Important:**

This ONVIF Test Specification v20.06 replaces the previously released version DTT v19.12 along with the errata accepted. As of October 1<sup>st</sup> 2020, ONVIF members shall only declare conformance of a product with ONVIF Test Specification v20.06.

- Test cases added
  - 37 test cases in Access Control
  - 9 test cases in Analytics
  - 10 test cases in Event Handling
  
- Test cases modified
  - 31 test cases in Access Control
  - 7 test cases in Access Rules
  - 2 test cases in Analytics
  - 18 test cases in Credentials
  - 1 test cases in Device I/O
  - 29 test cases in Door Control
  - 19 test cases in Event Handling
  - 5 test cases in Imaging
  - 11 test cases in Media2 Configuration
  - 3 test cases in Receiver
  - 17 test cases in Schedule
  - 1 test case in Security 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.

### Access Control

Test Case ID	Test Case Name
ACCESSCONTROL-6-1-3	GET SUPPORTED ANALYTICS MODULES
ACCESSCONTROL-9-1-5	ACCESS CONTROL - ACCESS DENIED TO IDENTIFIER EVENT
ACCESSCONTROL-11-1-9	ACCESS CONTROL - ACCESS GRANTED TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-10	ACCESS CONTROL - ACCESS DENIED TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-11	ACCESS CONTROL - ACCESS TIMEOUT TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-14-1-1	GET ACCESS POINTS
ACCESSCONTROL-14-1-2	GET ACCESS POINT LIST - LIMIT
ACCESSCONTROL-14-1-3	GET ACCESS POINT LIST - STARTREFERENCE AND LIMIT
ACCESSCONTROL-14-1-4	GET ACCESS POINT LIST - NO LIMIT
ACCESSCONTROL-14-1-5	CREATE ACCESS POINT (ACCESS POINT CAPABILITIES TRUE)
ACCESSCONTROL-14-1-6	CREATE ACCESS POINT (ACCESS POINT CAPABILITIES FALSE)
ACCESSCONTROL-14-1-7	MODIFY ACCESS POINT
ACCESSCONTROL-14-1-8	DELETE ACCESS POINT
ACCESSCONTROL-14-1-9	GET ACCESS POINTS WITH INVALID TOKEN
ACCESSCONTROL-14-1-10	GET ACCESS POINTS - TOO MANY ITEMS
ACCESSCONTROL-14-1-11	CREATE ACCESS POINT - NOT EMPTY ACCESS POINT TOKEN
ACCESSCONTROL-14-1-12	MODIFY ACCESS POINT WITH INVALID TOKEN
ACCESSCONTROL-14-1-13	DELETE ACCESS POINT WITH INVALID TOKEN
ACCESSCONTROL-14-1-14	CREATE NEW ACCESS POINT WITH SET ACCESS POINT (ACCESS POINT CAPABILITIES TRUE)
ACCESSCONTROL-14-1-15	CREATE NEW ACCESS POINT WITH SET ACCESS POINT (ACCESS POINT CAPABILITIES FALSE)
ACCESSCONTROL-14-1-16	MODIFY ACCESS POINT WITH SET ACCESS POINT
ACCESSCONTROL-14-1-17	SET ACCESS POINT - EMPTY ACCESS POINT TOKEN

ACCESSCONTROL-15-1-1	GET AREAS
ACCESSCONTROL-15-1-2	GET AREA LIST - LIMIT
ACCESSCONTROL-15-1-3	GET AREA LIST - START REFERENCE AND LIMIT
ACCESSCONTROL-15-1-4	GET AREA LIST - NO LIMIT
ACCESSCONTROL-15-1-5	CREATE AREA
ACCESSCONTROL-15-1-6	MODIFY AREA
ACCESSCONTROL-15-1-7	DELETE AREA
ACCESSCONTROL-15-1-8	GET AREAS WITH INVALID TOKEN
ACCESSCONTROL-15-1-9	GET AREAS - TOO MANY ITEMS
ACCESSCONTROL-15-1-10	CREATE AREA - NOT EMPTY AREA TOKEN
ACCESSCONTROL-15-1-11	MODIFY AREA WITH INVALID TOKEN
ACCESSCONTROL-15-1-12	DELETE AREA WITH INVALID TOKEN
ACCESSCONTROL-15-1-13	CREATE NEW AREA WITH SET AREA
ACCESSCONTROL-15-1-14	MODIFY AREA WITH SET AREA
ACCESSCONTROL-15-1-15	SET AREA - EMPTY AREA TOKEN

**Analytics**

Test Case ID	Test Case Name
ANALYTICS-4-1-4	GET SUPPORTED METADATA
ANALYTICS-4-1-6	DELETE ANALYTICS MODULES
ANALYTICS-4-1-7	MODIFY ANALYTICS MODULES
ANALYTICS-5-1-2	VEHICLE INFORMATION DESCRIPTOR
ANALYTICS-5-1-3	GEO LOCATION METADATA
ANALYTICS-5-1-4	HUMAN FACE DESCRIPTOR
ANALYTICS-5-1-5	LICENSE PLATE INFORMATION DESCRIPTOR
ANALYTICS-5-1-6	HUMAN BODY DESCRIPTOR
ANALYTICS-5-1-7	IMAGE DATA

**Event Handling**

Test Case ID	Test Case Name
EVENT-7-1-1	ADD EVENT BROKER CONFIGURATION
EVENT-7-1-2	MODIFY EVENT BROKER CONFIGURATION
EVENT-7-1-3	DELETE EVENT BROKER CONFIGURATION
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)

## 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-1-1-1	ACCESS CONTROL SERVICE CAPABILITIES
ACCESSCONTROL-5-1-1	ACCESS CONTROL - ACCESS POINT ENABLED EVENT
ACCESSCONTROL-5-1-2	ACCESS CONTROL - ACCESS POINT ENABLED EVENT STATE CHANGE
ACCESSCONTROL-6-1-1	ACCESS CONTROL - ACCESS GRANTED TO ANONYMOUS EVENT
ACCESSCONTROL-6-1-2	ACCESS CONTROL - ACCESS GRANTED WITH CREDENTIAL EVENT
ACCESSCONTROL-6-1-3	ACCESS CONTROL - ACCESS GRANTED TO IDENTIFIER EVENT
ACCESSCONTROL-7-1-1	ACCESS CONTROL - ACCESS TAKEN BY ANONYMOUS EVENT
ACCESSCONTROL-7-1-2	ACCESS CONTROL - ACCESS TAKEN WITH CREDENTIAL EVENT
ACCESSCONTROL-8-1-1	ACCESS CONTROL - ACCESS NOT TAKEN BY ANONYMOUS EVENT
ACCESSCONTROL-8-1-2	ACCESS CONTROL - ACCESS NOT TAKEN WITH CREDENTIAL EVENT
ACCESSCONTROL-9-1-1	ACCESS CONTROL – ACCESS DENIED TO ANONYMOUS EVENT
ACCESSCONTROL-9-1-2	ACCESS CONTROL – ACCESS DENIED WITH CREDENTIAL EVENT
ACCESSCONTROL-9-1-3	ACCESS CONTROL – ACCESS DENIED WITH CREDENTIAL EVENT (CREDENTIAL NOT FOUND – CARD)
ACCESSCONTROL-9-1-4	ACCESS CONTROL – ACCESS DENIED WITH CREDENTIAL EVENT (CREDENTIAL NOT FOUND)
ACCESSCONTROL-9-1-5	ACCESS CONTROL – ACCESS DENIED TO IDENTIFIER EVENT
ACCESSCONTROL-11-1-1	ACCESS CONTROL - ACCESS TIMEOUT TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-10-1-2	ACCESS CONTROL – DURESS
ACCESSCONTROL-12-1-1	ACCESS CONTROL – ADD OR CHANGE ACCESS POINT EVENT
ACCESSCONTROL-12-1-2	ACCESS CONTROL – REMOVE ACCESS POINT EVENT
ACCESSCONTROL-11-1-2	ACCESS CONTROL - ACCESS DENIED TO ANONYMOUS (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-3	ACCESS CONTROL - ACCESS TIMEOUT TO ANONYMOUS (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-4	ACCESS CONTROL - ACCESS GRANTED WITH CREDENTIAL (EXTERNAL AUTHORIZATION)

ACCESSCONTROL-11-1-5	ACCESS CONTROL - ACCESS DENIED WITH CREDENTIAL (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-6	ACCESS CONTROL - ACCESS TIMEOUT WITH CREDENTIAL (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-9	ACCESS CONTROL - ACCESS GRANTED TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-10	ACCESS CONTROL - ACCESS DENIED TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-11-1-11	ACCESS CONTROL - ACCESS TIMEOUT TO IDENTIFIER (EXTERNAL AUTHORIZATION)
ACCESSCONTROL-12-1-1	ACCESS CONTROL – ADD OR CHANGE ACCESS POINT EVENT
ACCESSCONTROL-12-1-2	ACCESS CONTROL – REMOVE ACCESS POINT EVENT
ACCESSCONTROL-13-1-1	ACCESS CONTROL – ADD OR CHANGE AREA EVENT
ACCESSCONTROL-13-1-2	ACCESS CONTROL – REMOVE AREA EVENT

## Access Rules

Test Case ID	Test Case Name
ACCESS_RULES-3-1-5	CREATE ACCESS PROFILE
ACCESS_RULES-3-1-7	MODIFY ACCESS PROFILE
ACCESS_RULES-3-1-8	DELETE ACCESS PROFILE
ACCESS_RULES-3-1-15	SET NEW ACCESS PROFILE
ACCESS_RULES-3-1-16	SET ACCESS PROFILE
ACCESS_RULES-5-1-1	ACCESS PROFILE CHANGED EVENT
ACCESS_RULES-5-1-2	ACCESS PROFILE REMOVED EVENT

## Analytics

Test Case ID	Test Case Name
ANALYTICS-2-1-1	MOTION REGION DETECTOR EVENT
ANALYTICS-4-1-5	Create Analytics Modules



## Credential

Test Case ID	Test Case Name
CREDENTIAL-3-1-5	CREATE CREDENTIAL (ENABLED)
CREDENTIAL-3-1-6	CREATE CREDENTIAL (DISABLED)
CREDENTIAL-3-1-7	MODIFY CREDENTIAL
CREDENTIAL-3-1-8	DELETE CREDENTIAL
CREDENTIAL-3-1-16	SET NEW CREDENTIAL (ENABLED)
CREDENTIAL-3-1-17	SET NEW CREDENTIAL (DISABLED)
CREDENTIAL-3-1-18	SET CREDENTIAL
CREDENTIAL-4-1-2	CHANGE CREDENTIAL STATE
CREDENTIAL-5-1-2	SET CREDENTIAL IDENTIFIER – ADDING NEW TYPE
CREDENTIAL-5-1-3	SET CREDENTIAL IDENTIFIER – REPLACE OF THE SAME TYPE
CREDENTIAL-5-1-4	DELETE CREDENTIAL IDENTIFIER CREDENTIAL-6-1-2 SET CREDENTIAL ACCESS PROFILES - ADDING NEW ACCESS PROFILE
CREDENTIAL-6-1-3	SET CREDENTIAL ACCESS PROFILES -UPDATING ACCESS PROFILE
CREDENTIAL-6-1-4	DELETE CREDENTIAL ACCESS PROFILES
CREDENTIAL-7-1-1	RESET ANTIPASSBACK VIOLATIONS
CREDENTIAL-8-1-2	CONFIGURATION CREDENTIAL CHANGED EVENT
CREDENTIAL-8-1-3	CONFIGURATION CREDENTIAL REMOVED EVENT
CREDENTIAL-8-1-4	CREDENTIAL STATE ENABLED EVENT
CREDENTIAL-8-1-5	CREDENTIAL STATE ANTIPASSBACK VIOLATION EVENT (PROPERTY EVENT)

## Device I/O

Test Case ID	Test Case Name
DEVICEIO-2-1-1	REALTIME PULLPOINT SUBSCRIPTION – DIGITAL INPUT EVENT

## Door Control

Test Case ID	Test Case Name
DOORCONTROL-1-1-1	DOOR CONTROL SERVICE CAPABILITIES
DOORCONTROL-3-1-28	ACCESS DOOR
DOORCONTROL-3-1-29	BLOCK DOOR
DOORCONTROL-3-1-30	DOUBLE LOCK DOOR
DOORCONTROL-3-1-31	LOCK DOOR
DOORCONTROL-3-1-32	UNLOCK DOOR
DOORCONTROL-3-1-33	LOCK OPEN DOOR
DOORCONTROL-3-1-34	LOCK OPEN RELEASE DOOR
DOORCONTROL-3-1-35	LOCK DOWN DOOR
DOORCONTROL-3-1-36	LOCK DOWN RELEASE DOOR
DOORCONTROL-6-1-1	DOOR CONTROL – DOOR MODE EVENT
DOORCONTROL-6-1-2	DOOR CONTROL – DOOR PHYSICAL STATE EVENT
DOORCONTROL-6-1-3	DOOR CONTROL – DOOR PHYSICAL STATE EVENT STATE CHANGE
DOORCONTROL-6-1-4	DOOR CONTROL – DOUBLE LOCK PHYSICAL STATE EVENT
DOORCONTROL-6-1-5	DOOR CONTROL – DOUBLE LOCK PHYSICAL STATE EVENT STATE CHANGE
DOORCONTROL-6-1-6	DOOR CONTROL – LOCK PHYSICAL STATE EVENT
DOORCONTROL-6-1-7	DOOR CONTROL – LOCK PHYSICAL STATE EVENT STATE CHANGE
DOORCONTROL-6-1-8	DOOR CONTROL – DOOR TAMPER EVENT
DOORCONTROL-6-1-9	DOOR CONTROL – DOOR TAMPER EVENT STATE CHANGE
DOORCONTROL-6-1-10	DOOR CONTROL – DOOR ALARM EVENT
DOORCONTROL-6-1-11	DOOR CONTROL – DOOR ALARM EVENT STATE CHANGE
DOORCONTROL-6-1-12	DOOR CONTROL – DOOR FAULT EVENT
DOORCONTROL-6-1-13	DOOR CONTROL – DOOR FAULT EVENT STATE CHANGE

DOORCONTROL-7-1-1	DOOR CONTROL – ADD OR CHANGE DOOR EVENT
DOORCONTROL-7-1-2	DOOR CONTROL – REMOVE DOOR EVENT
DOORCONTROL-8-1-14	CREATE NEW DOOR WITH SET DOOR (DOOR CAPABILITIES TRUE)
DOORCONTROL-8-1-15	CREATE NEW DOOR WITH SET DOOR (DOOR CAPABILITIES FALSE)
DOORCONTROL-8-1-16	MODIFY DOOR WITH SET DOOR
DOORCONTROL-8-1-17	SET DOOR - EMPTY DOOR TOKEN

## Event Handling

Test Case ID	Test Case Name
EVENT-3-1-9	REALTIME PULLPOINT SUBSCRIPTION - CREATE PULL POINT SUBSCRIPTION
EVENT-3-1-12	REALTIME PULLPOINT SUBSCRIPTION - RENEW
EVENT-3-1-15	REALTIME PULLPOINT SUBSCRIPTION - PULLMESSAGES
EVENT-3-1-16	REALTIME PULLPOINT SUBSCRIPTION - PULLMESSAGES FILTER
EVENT-3-1-17	REALTIME PULLPOINT SUBSCRIPTION - INVALID MESSAGE CONTENT FILTER
EVENT-3-1-19	REALTIME PULLPOINT SUBSCRIPTION - UNSUBSCRIBE (NEGATIVE TEST)
EVENT-3-1-20	REALTIME PULLPOINT SUBSCRIPTION - TIMEOUT
EVENT-3-1-22	REALTIME PULLPOINT SUBSCRIPTION - INVALID TOPIC EXPRESSION
EVENT-3-1-24	REALTIME PULLPOINT SUBSCRIPTION – PULLMESSAGES AS KEEP-ALIVE
EVENT-3-1-25	REALTIME PULLPOINT SUBSCRIPTION - SET SYNCHRONIZATION POINT
EVENT-3-1-32	REALTIME PULLPOINT SUBSCRIPTION – PULLMESSAGES TIMEOUT
EVENT-3-1-33	REALTIME PULLPOINT SUBSCRIPTION – CONJUNCTION IN PULLMESSAGES FILTER (OR OPERATION)
EVENT-3-1-34	REALTIME PULLPOINT SUBSCRIPTION – TOPIC SUB-TREE IN PULLMESSAGES FILTER
EVENT-3-1-35	REALTIME PULLPOINT SUBSCRIPTION – CONJUNCTION IN NOTIFY FILTER (TOPIC SUB-TREE AND OR OPERATION)
EVENT-3-1-36	REALTIME PULLPOINT SUBSCRIPTION - UNSUBSCRIBE
EVENT-3-1-37	REALTIME PULLPOINT SUBSCRIPTION – MAXIMUM SUPPORTED NUMBER OF NOTIFICATION PULL POINTS
EVENT-3-1-38	REALTIME PULLPOINT SUBSCRIPTION - MESSAGE CONTENT FILTER

EVENT-5-1-1	EVENT SERVICE CAPABILITIES
EVENT-5-1-2	GET SERVICES AND EVENT SERVICE CAPABILITIES CONSISTENCY

## Imaging

Test Case ID	Test Case Name
IMAGING-4-1-1	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO BLURRY
IMAGING-4-1-2	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO DARK
IMAGING-4-1-3	REALTIME PULLPOINT SUBSCRIPTION – IMAGE TOO BRIGHT
IMAGING-4-1-4	REALTIME PULLPOINT SUBSCRIPTION – GLOBAL SCENE CHANGE
IMAGING-4-1-5	REALTIME PULLPOINT SUBSCRIPTION – MOTION ALARM

## Media2 Configuration

Test Case ID	Test Case Name
MEDIA2-1-1-2	CREATE MEDIA PROFILE WITH PRE-DEFINED CONFIGURATION
MEDIA2-1-1-3	DYNAMIC MEDIA PROFILE CONFIGURATION
MEDIA2-1-1-4	GET PROFILES
MEDIA2-2-2-5	MODIFY ALL SUPPORTED VIDEO SOURCE CONFIGURATIONS
MEDIA2-2-3-4	SET ALL SUPPORTED VIDEO ENCODER CONFIGURATIONS
MEDIA2-3-1-5	MODIFY ALL SUPPORTED AUDIO SOURCE CONFIGURATIONS
MEDIA2-3-2-1	G.711 AUDIO ENCODER CONFIGURATION
MEDIA2-3-2-2	AAC AUDIO ENCODER CONFIGURATION
MEDIA2-3-3-5	MODIFY ALL SUPPORTED AUDIO OUTPUT CONFIGURATIONS
MEDIA2-4-1-2	DYNAMIC MEDIA PROFILE CONFIGURATION FOR PTZ
MEDIA2-8-1-1	MODIFY ALL SUPPORTED METADATA CONFIGURATIONS

## Receiver

Test Case ID	Test Case Name
RECEIVER-2-1-16	CONFIGURE RECEIVER – (RTP-Unicast/UDP)
RECEIVER-2-1-17	CONFIGURE RECEIVER – (RTP/RTSP/TCP)
RECEIVER-2-1-18	CONFIGURE RECEIVER – INVALID MEDIA URIT

## Schedule

Test Case ID	Test Case Name
SCHEDULE-3-1-5	CREATE SCHEDULE
SCHEDULE-3-1-6	MODIFY SCHEDULE
SCHEDULE-3-1-7	DELETE SCHEDULE
SCHEDULE-3-1-17	SET NEW SCHEDULE
SCHEDULE-3-1-18	SET SCHEDULE
SCHEDULE-5-1-5	CREATE SPECIAL DAY GROUP
SCHEDULE-5-1-6	MODIFY SPECIAL DAY GROUP
SCHEDULE-5-1-7	DELETE SPECIAL DAY GROUP
SCHEDULE-5-1-13	SET NEW SPECIAL DAY GROUP
SCHEDULE-5-1-14	SET SPECIAL DAY GROUP
SCHEDULE-6-1-2	CHANGE SCHEDULE STATE - CHANGE STANDARD
SCHEDULE-6-1-3	CHANGE SCHEDULE STATE - CHANGE SPECIAL DAYS
SCHEDULE-7-1-1	SCHEDULE STATE ACTIVE EVENT (PROPERTY EVENT)
SCHEDULE-7-1-2	SCHEDULE CHANGED EVENT
SCHEDULE-7-1-3	SCHEDULE REMOVED EVENT
SCHEDULE-7-1-4	SPECIAL DAYS CHANGED EVENT
SCHEDULE-7-1-5	SPECIAL DAYS REMOVED EVENT

### Security Configuration

Test Case ID	Test Case Name
ADVANCED_SECURITY-1-1-2	CREATE RSA KEY PAIR

## List of Device Test Specification Documents v20.06

Document	Release Date
ONVIF_Access_Control_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Access_Rules_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Analytics_Engine_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Authentication_Behavior_Device_Test_Specification_19.06.pdf	Jun-19
ONVIF_Base_Device_Test_Specification_18.12.pdf	Dec-18
ONVIF_Credential_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_DeviceIO_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Device_Feature_Discovery_Specification_20.06.pdf	Jun-20
ONVIF_Device_Test_Specification_Description_17.06.pdf	Jun-17
ONVIF_Door_Control_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Event_Handling_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Imaging_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Media2_Configuration_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Media_Configuration_Device_Test_Specification_19.12.pdf	Dec-19
ONVIF_Profiles_Conformance_Device_Test_Specification_20.06.pdf	Jun-20
ONVIF_Profile_Q_Device_Test_Specification_18.06.pdf	Jun-18
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_19.12.pdf	Dec-19
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