Request for Quotation (RfQ)

For ONVIF Technical Services Committee, Device Testing Tool Working Group, Profile D Working Group

&

Profile M Working Group
Projects "Mahou" & "Napar"

Circulation : June 15, 2020
Quotation Due : June 29, 2020

Contents

1. Introduction

ONVIF™ is an open industry forum for the development of a global standard for the interface of IP-based physical security products. Information about ONVIF, its objectives and members can be found on http://www.onvif.org/.

The ONVIF Device Test Tool will be used by the members of ONVIF to test conformance of IP-based physical security products with the ONVIF Test Specification, which in turn is based on the ONVIF Profile Specifications and ONVIF Network Interface Specifications, and WSDL and XML schemas, as described in the ONVIF Conformance Process Specification.

2. Abbreviations

WG	Working Group
DTT WG	ONVIF Device Testing Working Group
Profile D WG	ONVIF Profile D Working Group
Profile M WG	ONVIF Profile M Working Group
DTT	ONVIF Device Test Tool
ODP	ONVIF Developer's Plugfest

3. Project Purpose

The purpose of this project is to produce two releases of the ONVIF Device Test Tool and ONVIF Test Specification for Profile S, Profile G, Profile C, Profile Q, Profile A, Profile T and for profiles D and M which are under development.

This project will deliver an incremental release of the ONVIF Device Test Tool and ONVIF Test Specification at the end of project Mahou ('v20.12') followed by another incremental release at the end of project Napar ('v21.06').

4. Service Requested

- Update the Test Specification and Test Tool for ONVIF Devices based on two successive Scopes-of-Work: *Project* Mahou for a December 2020 release and *Project* Napar for a June 2021 release. It will require development of the ONVIF Device Test Tool, writing test cases for the ONVIF Test Specification and implementation of the test cases and updating the technical and architectural documentation of the ONVIF Device Test Tool.

- Additional work items and requirements might be identified during the project and will be prioritized by the workgroups before being submitted to the contractor.

- Coordinate the development effort made by the other ONVIF working groups working with the Contractor. The Device Testing WG is responsible for the integration and coordination of the different ONVIF working group development efforts on the ONVIF Device Test Tool and ONVIF Test Specification and will be the main point of contact to the Contractor in case of conflicts between projects run in parallel.

- Prepare documents for public release.

- Run Test Tool Clinics at relevant ONVIF Developers' Plugfests (ODP) for the purpose of practical field test, to collect member feedback and improvement suggestions and DTT member training. The Device Testing WG may assign additional tasks and priorities during the preparation period for each ODP. Please note that the Test Tool Clinics maybe postponed or cancelled due to unforeseen circumstances.

For a detailed description of the service requested, see Section 4, Description of Requested Service.

5. Description of Requested Service

The service being requested MUST fulfil the following requirements. Requirement levels MUST be interpreted as described in RFC 2119[1] "Key words for use in RFCs to indicate requirement levels".

1. The projects MUST be developed in accordance with the schedule outlined in Appendix A.

2. Any deviations from the schedule outlined in Appendix A MUST be approved by ONVIF.

3. The project SHOULD use the following resources (manpower equivalent) for respective projects.

   A) Project Mahou

      i. 1400 man-hours total, including project management, design and implementation of ONVIF Device Test Tool features, new test case implementation, modification of existing test cases and bug fixing, testing, design and modification of test cases for ONVIF Test specification documents, validation of test cases, regression testing of bug fixes and modifications to existing test cases and features and updating the technical and architectural documentation of the tool.

      ii. 500 man-hours for service buffer. This number of man-hours should be allocated as a service buffer for Project Mahou. This buffer should be used in case the allocated resources above run out and additional work items need to be carried out during the project.

   B) Project Napar

      i. 1000 man-hours total, including project management, design and implementation of ONVIF Device Test Tool features, new test case implementation, modification of existing test cases and bug fixing, testing, design and modification of test cases for ONVIF Test specification documents, validation of test cases, regression testing of bug fixes and modifications to existing test cases and features and technical and architectural documentation.

      ii. 300 man-hours for service buffer. This number of man-hours should be allocated as a service buffer for Project Napar. This resource should be used in case the allocated resources above run out and additional work items need to be carried out during the project.

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[1] See: http://www.ietf.org/rfc/rfc2119.txt

4. The projects MUST include the work items outlined in Appendix D, Appendix E and Appendix F. The **DTT WG, Profile M and Profile D WG** can at any time decide to drop or postpone a work item and the Contractor MUST rollback the changes if any progress was made on the work item at no additional charge. The scope of the project deliverables will be adjusted if necessary, to keep the release date of the official release (see Appendix A) and/or to keep the project within the resource plan (as described above).

5. Evolution tasks are marked "EVO" in their title and figure in appendix D and E. Evolution tasks are to be developed in a separate branch in the SVN repository used to host and track all ONVIF development. Once an evolution task is complete, it can be merged in the project subject to the **DTT WG** approval. The Contractor cannot make the decision to merge the changes until then and, upon request from the **DTT WG**, MUST rollback any changes to the main branch and rearrange those changes in a separate branch at no additional charges if the merge is done without **DTT WG** approval.

6. The projects MUST deliver an ONVIF Device Test Tool and Test Specification and DUT Simulator as outlined in Appendix B and Appendix C.

7. The projects MUST follow the technical requirements outlined in Appendix G during the ONVIF Device Test Tool and DUT Simulator development.

8. The projects MUST respect the style and structure of the ONVIF Test Specification when updating the documents.

9. The final deliverables MUST pass a review before the service is considered delivered; up to 30 days might be required to complete the review. If the workgroup exceeds the 30-day period, the service will automatically be considered delivered for all payment purposes.

10. Any further maintenance and expansion work done to the ONVIF Device Test Tool and/or ONVIF Test Specification is subject to further quotations and separate contracts. A renewed cooperation of the Contractor and ONVIF for these tasks over many development steps is possible and where possible appreciated, however not guaranteed.

6. Execution of Service

The execution of the service must fulfill the following requirements:

- The service must be executed by capable and qualified employees or sub-contractors under the same rules.

- The Contractor MUST provide a weekly progress report to the **DTT WG** outlining the tasks performed and the issues encountered. The report must be done on the internal wiki for each project. It must be maintained and show what tasks have been completed, what the next tasks for next week will be and remaining time available to approve new tasks.

- The contractor must provide the results of the regression tests executed for every release of a prototype. Regression testing of the prototypes and the final release is restricted to 64-bit versions of Windows 7 and 10 operating systems.

- Interpretation issues encountered during development or test case writing MUST be forwarded to and handled by the corresponding working group based on the responsibilities listed in Appendix C.

- Throughout the projects the **DTT WG** might call for telephone conferences and/or face-to-face meetings with the Contractor to address any possible open questions and to review the progress. The Contractor MUST attend those requested telephone conferences and face-to-face meetings.

    a. The Contractor may be requested to attend ONVIF Face-to-Face Meeting.

    b. The Contractor may be requested to participate in the 2 ONVIF Developers' Plugfest (ODP) in RfQ time frame and shall run the 'Test Tool Clinic'.

    c. The **DTT WG** MUST give the Contractor a notice of at least two months in advance if participation is required.

    d. At least one technical resource and one manager assigned to the projects must be legally authorized to travel outside of their home country.

    e. In the event of any cancellation of face-to-face meetings and/or Developers' Plugfest due to unforeseen circumstances the Contractor may be requested to participate in the events through a combination of telephone conferences and remote testing sessions.

7. Protective Rights

1. ONVIF will hold all rights to the ONVIF Device Test Tool software (the development results), its source code, documentation, and related inventions, achieved by employees and sub-contractors of the Contractor.

2. ONVIF will obtain exclusive and discretional rights of use without any territorial restrictions or time limits.

3. The Contractor notifies ONVIF if and where it intends to use material in the ONVIF Device Test Tool which is affecting rights of a third party.

4. The Contractor will ensure in an appropriate way that ONVIF can claim inventions made by employees and sub-contractors of the Contractor.

8. Confidentiality

1. The Contractor MUST sign a non-disclosure agreement (NDA) with ONVIF prior to the initiation of the project. This NDA is for ONVIF to share draft technical specifications as well as other necessary non-public information of ONVIF, needed to fulfil this requested service.

2. The Contractor MUST keep all development results and related documents strictly confidential and must release them only to the ONVIF office and the assigned technical contacts of ONVIF.

9. Quotation

The quotation MUST at least contain the following information:

- Cost of requested service and all other related costs. Travel cost will not be applicable if the meetings are cancelled.

- Cost of travel expenses for two representatives of the Contractor at the Developers' Plugfest for "Device Test Tool Clinic".

     a. Possible travel request: Madrid (Spain), May 2021

  Estimate for travel expenses for two representatives of the Contractor. The Contractor may not be needed for the whole duration of the meetings. Additional representative(s) of the Contractor at the meetings is subject to approval from ONVIF.

     b. Possible travel requests for project Napar:
          i. Singapore, February 2021
          ii. Madrid (Spain), May 2021

- Travel arrangements should be consolidated when possible in case the Contractor is working on parallel projects for ONVIF.

10.   References

The following ONVIF documents MUST be used as a reference in the project:

- Profile S Specification (https://www.onvif.org/profiles/profile-s/)
- Profile C Specification (https://www.onvif.org/profiles/profile-c/)
- Profile G Specification (https://www.onvif.org/profiles/profile-g/)
- Profile Q Specification (https://www.onvif.org/profiles/profile-q/)
- Profile A Specification (https://www.onvif.org/profiles/profile-a/)
- Profile T Specification (https://www.onvif.org/profiles/profile-t/)
- Profile D Specification (under development, see contacts)
- Profile M Specification (under development, see contacts)
- Network Interface Specifications (https://www.onvif.org/profiles/specifications/)
- Device Test Specifications (https://www.onvif.org/profiles/conformance/device-test/)
- Conformance Process Specification (https://www.onvif.org/profiles/conformance/)
- Application Programmers Guide (https://www.onvif.org/profiles/whitepapers/)

These documents are to be delivered together with this document or upon request by the Contractor.

These documents MAY be replaced with newer versions after the start of the project. In such a case the **DTT WG** will inform the Contractor and discuss appropriate actions.

11. Contacts

General contact:

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Technical Contacts:

Technical issues and questions concerning the ONVIF specifications, schemas, and this Request for

Quotation MUST be addressed to:

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Appendix A -   Timeline for Service

Due dates correspond to end of day in UTC time. See <u>Appendix B</u> for definition of deliverables.

15 Jun 2020	Circulation of this Request for Quotation
29 Jun 2020	Quotation must be received by the **ONVIF Office** and **Device Testing WG** by e-mail
13 Jul 2020	Contractor selected & agreement signed

Project Mahou

03 Aug 2020	Delivery of ONVIF Device Test Tool 1st Prototype & Test Specification 1stDraft
07 Sep 2020	Delivery of ONVIF Device Test Tool 2nd Prototype & Test Specification 2nd Draft
12 Oct 2020	Delivery of ONVIF Device Test Tool 3rd Prototype & Test Specification 3rd Draft
16 Nov 2020	Delivery of ONVIF Device Test Tool & Test Specification Release Candidate
14 Dec 2020	Delivery of Device Test Tool & Test Specification v20.12

Project Napar

01 Feb 2021	Delivery of ONVIF Device Test Tool 1st Prototype & Test Specification 1st Draft
Feb 2021	F2F Meetings in Singapore (date to be determined)
08 Mar 2021	Delivery of ONVIF Device Test Tool 2nd Prototype & Test Specification 2nd Draft
12 Apr 2021	Delivery of ONVIF Device Test Tool 3rd Prototype & Test Specification 3rd Draft
May 2021	Developers' Plugfest in Madrid, Spain
May 2021	F2F Meetings in Madrid, Spain
31 May 2021	Delivery of ONVIF Device Test Tool & Test Specification Release Candidate
21 June 2021	Delivery of ONVIF Device Test Tool & Test Specification v21.06

Appendix B -   Definition of Deliverables

Name	Description
ONVIF Test Specification Draft	• Document template updated. • "Test Cases/Use-Cases" integrated into their corresponding Test Specification document in draft form. • History document must be provided for each specification document and kept up to date with each subsequent delivery.
ONVIF Test Specification Release Candidate	• Only stable "Test Cases/Use-Cases" are included in this delivery. • Total List of "Test Cases/Use-Cases" must be provided. • From that point on, only fixes requested by WG are allowed.
ONVIF Test Specification Final Release	• Issues identified in Release Candidate fixed or documented in release notes. • All tickets for the corresponding Milestone have been addressed or postponed (Mahou for December 2020 release, Napar for June 2021 release)
ONVIF Device Test Tool Prototype	• Partial implementation of "Test Cases/Use-Cases" validation and Test Tool features. Only tested "Test Cases/Use-Cases" and features should be delivered. • List of "Test Cases/Use-Cases" and features implemented in the prototype must also be provided.
ONVIF Device Test Tool Release Candidate	• Only stable "Test Cases/Use-Cases" and Features are included in this delivery. • From that point on, only fixes requested by WG are allowed.
ONVIF Device Test Tool Final Release	• Issues identified in Release Candidate fixed or documented in release notes. • All tickets for the corresponding Milestone have been addressed or postponed (Mahou for December 2020 release, Napar for June 2021 release)

Appendix C - Delivery Packages and Responsibilities

Delivery Package	Item	Target	Editing Responsibility	Review Responsibility
Test Specification	Internal Releases Notes	Workgroup	Contractor	DTT WG Chair
	Official Release Notes	Public	Device Testing WG	All WGs
	Base Device Test Specification	Public	Contractor	DTT WG
	Access Rules Device Test Specification	Public	Contractor	DTT WG
	Access Control Device Test Specification	Public	Contractor	DTT WG
	Media Configuration Device Test Specification	Public	Contractor	DTT WG
	Media2 Configuration Device Test Specification	Public	Contractor	DTT WG
	Real Time Streaming Device Test Specification	Public	Contractor	DTT WG
	Real Time Streaming using Media2 Device Test Specification	Public	Contractor	DTT WG
	Imaging Device Test Specification	Public	Contractor	DTT WG
	PTZ Device Test Specification	Public	Contractor	DTT WG
	Door Control Device Test Specification	Public	Contractor	DTT WG
	Device IO Device Test Specification	Public	Contractor	DTT WG
	Device Feature Discovery Specification	Public	Contractor	DTT WG
	Event Handling Device Test Specification	Public	Contractor	DTT WG
	Access Control Device Test Specification	Public	Contractor	DTT WG
	Replay Control Device Test Specification	Public	Contractor	DTT WG
	Receiver Device Test Specification	Public	Contractor	DTT WG
	Recording Control Device Test Specification	Public	Contractor	DTT WG
	Recording Search Device Test Specification	Public	Contractor	DTT WG
	Security Configuration Device Test Specification	Public	Contractor	DTT WG
	Profile Q Device Test Specification	Public	Contractor	DTT WG
	Profiles Conformance Device Test Specification	Public	Contractor	DTT WG
	Access Rules Device Test Specification	Public	Contractor	DTT WG
	Credential Device Test Specification	Public	Contractor	DTT WG
	Schedule Device Test Specification	Public	Contractor	DTT WG
	Analytics Engine Device Test Specification	Public	Contractor	DTT WG

Delivery Package	Item	Target	Editing Responsibility	Review Responsibility
	Test Case Summary for Profile Conformance	Public	Contractor	All WGs
	Total List of Test Cases	WG	Contractor	All WGs
ONVIF Device Test Tool	Binaries	ONVIF Members	Contractor	All WGs
	Source Code	Workgroup	Contractor	All WGs
	Help Files	ONVIF Members	Contractor	DTT WG
	Installation Guide	ONVIF Members	Contractor	DTT WG
	Internal Release Notes	Workgroup	Contractor	All WGs
	Official Release Notes	ONVIF Members	DTT WG	All WGs
	Errata Document	ONVIF Members	DTT WG	DTT WG Chair
	Test Coverage Map	Workgroup	Contractor	DTT WG
Profile	Profile S Specification	Public	DTT WG	DTT WG
	Profile C Specification	Public	DTT WG	DTT WG
	Profile G Specification	Public	DTT WG	DTT WG
	Profile Q Specification	Public	DTT WG	DTT WG
	Profile A Specification	Public	DTT WG	DTT WG
	Profile T Specification	Public	DTT WG	DTT WG
	Profile M Specification	Workgroup	Profile M WG	Profile M WG
	Profile D Specification	Workgroup	Profile D WG	Profile D WG

Appendix D -   Project MAHOU– Scope-of-work (Service based)

The **DTT WG, Profile M WG and Profile D WG** use a ticket system to manage all work items for the Contractor and for the working group. The tickets can be consulted at https://wush.net/trac/onvif-ext/

Only tickets targeted at the Milestone Mahou are part of this Scope-of-work. Additional tickets will be created during the project and will be prioritized by the workgroup.

The Contractor must follow the instructions detailed here https://wush.net/trac/onvif-ext/wiki/best_practices_vendor_company when working with the tickets.

Ticket	Summary	Type	Priority
#1867	Profile M features in DTT	Task	High
Once the Profile M specification is agreed upon and available the vendor MUST implement the features in DTT. This is a placeholder for future scope of work from Profile M workgroup. Coverage map for Profile M must be updated with the tests.			

Ticket	Summary	Type	Priority
#1866	Profile D features in DTT	Task	High
The vendor MUST implement the features once it is finalised by the Profile D WG. The coverage map must also be updated. This is a placeholder ticket for all Profile D features related tasks.			

Ticket	Summary	Type	Priority
#2015	[Profile M] Rule configuration functionality	Task	High
The vendor MUST add general test cases for the following rules: • 8.6 Rule configuration o GetSupportedRules o GetRules o CreateRules o DeleteRules o GetRuleOptions o ModifyRules These test cases will be run only if motion region rule is supported.			

Ticket	Summary	Type	Priority
#1847	Profile M: Test Spec: Rule engine-Face recognition	Task	High
The vendor MUST add test cases for verifying face recognition.			

Ticket	Summary	Type	Priority
#1848	Profile M: DTT: Rule engine-Face recognition	Task	High
The vendor MUST produce Device Test Tool that verifies face recognition according to test case written for ticket #1847. New test cases must be located under 'Analytics'.			

Ticket	Summary	Type	Priority
#1849	Profile M: Test Spec: Rule engine- License plate detection	Task	High
The vendor MUST add test cases for License plate detection.			

Ticket	Summary	Type	Priority
#1850	Profile M: DTT: Rule engine- License plate detection	Task	High
The vendor MUST produce Device Test Tool that verifies License plate detection according to test case written for ticket #1849. New test cases must be located under 'Analytics'.			

Ticket	Summary	Type	Priority
#510	Usability improvements for the Management tab	Enhancement	High
Currently the management tab requires many user configurations in order to run the tool for conformance, the workgroup believes some of those could be automated or improved. The vendor MUST: - Provide list of improvements to the workgroup for review and approval - Implement chosen and agreed upon improvements by the workgroup			

Ticket	Summary	Type	Priority
#1669	Support for client-supplied tokens in Access Control Specification	Task	Medium
The ClientSuppliedTokenSupported capability, SetAccessPoint and SetArea commands have been added to Access Control Specification to be able to create or update entities using a client-supplied token. If the ClientSuppliedTokenSupported capability is set to true, the vendor MUST create the following tests: - When the access point does not exist, it will be created using SetAccessPoint - When the access point exists, it will be updated using SetAccessPoint - When the area does not exist, it will be created using SetArea - When the area exists, it will be updated using SetArea			

Ticket	Summary	Type	Priority
#1688	[EVO] Save network trace from failed tests	Enhancement	Medium
It is quite common that users need a network trace when a test fails. The XML log gives some data but does not include many parts that can be interesting (for example, RTP packets). It is also easier to read a Wireshark trace than an XML log. If Wireshark is run in the background the conformance suite takes about 10% more time. After the tests a big trace file is generated, and one must extract parts that contain failed tests which is time consuming as well. Although the DTT currently captures traces the overhead would be less if DTT can save the output for the failed tests. The vendor MUST come up with a proposal to save traces functionality in the tool.			

Ticket	Summary	Type	Priority
#1857	[EVO] Syntax highlighting in requests and responses	ChangeRequest	Medium
The vendor MUST add Syntax highlighting to improve readability of requests and responses.			

Ticket	Summary	Type	Priority
#1879	Test Spec and Test Implementation: Access Taken (tns1:AccessControl/AccessTaken/Identifier and tns1:AccessControl/AccessNotTaken/Identifier)	Task	Medium
The vendor MUST implement the following : • Create test specification to cover tns1:AccessControl/AccessTaken/Identifier and tns1:AccessControl/AccessNotTaken/Identifier events functionality based on scenarios provided in "Profile D commands" document • Implement specified test cases in DTT • Add required features in feature discovery specification • Implement specified features in DTT			

Ticket	Summary	Type	Priority
#1927	[CR2512] Add Metadata dependency to Media2 - clarification about AnalyticsConfiguration dependency	Clarification	Medium
The vendor MUST align the AddMetadata behaviour as per the recommendation in the internal ticket #2603.			

Ticket	Summary	Type	Priority
#1928	[CR2467] MEDIA2-2-2-5 test case to be updated for reboot scenario	Enhancement	Medium
The vendor MUST add logic to the test to process Reboot flag in Rotate options for VideoSourceConfiguration.			

Ticket	Summary	Type	Priority
#1929	[CR2453] HTTP Digest VS TLS Client Certificate Authorization clarification	Clarification	Medium
According to 5.12.1 Authentication recently added in the Core Specification: The services defined in this standard shall be protected using digest authentication according to [RFC 2617] with the following exceptions. • Legacy devices supporting [WS-UsernameToken] and • TLS client authorization. The current understanding is if Device supports TLS client authorization HTTP Digest implementation will be skipped. It is not clear if this applies only when TLS client authorization is enabled, and Client connects using TLS. The vendor MUST get this clarified and implement in the tool.			

Ticket	Summary	Type	Priority
#1931	[CR2430] Should we add additional checks in GetOSDOptions to check color spaces	Enhancement	Medium
Based on the comments added to the color spaces as per [CR2430] the vendor MUST investigate and come up with a proposal for introducing additional checks in GetOSDOptions.			

Ticket	Summary	Type	Priority
#1940	[CR19.06_2.3] Add validation of Guaranteed Framerate parameter	ChangeRequest	Medium
The vendor MUST extend the following tests to check for the new parameter: • MEDIA-2-3-1 VIDEO ENCODER CONFIGURATIONS AND PROFILES CONSISTENCY • MEDIA-2-3-2 VIDEO ENCODER CONFIGURATIONS AND VIDEO ENCODER CONFIGURATION CONSISTENCY • MEDIA-2-3-3 VIDEO ENCODER CONFIGURATIONS AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY • MEDIA-2-3-4 PROFILES AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY • MEDIA2-2-3-2 VIDEO ENCODER CONFIGURATIONS AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY • MEDIA2-2-3-3 PROFILES AND VIDEO ENCODER CONFIGURATION OPTIONS CONSISTENCY • MEDIA2-2-3-4 SET ALL SUPPORTED VIDEO ENCODER CONFIGURATIONS A new test case for validation of Guaranteed Framerate parameter for streaming for each encoding/transport type for Media1/Media2 must also be created.			

Ticket	Summary	Type	Priority
#1941	[CR19.06_2.4] Add scheduled recording testing	ChangeRequest	Medium
Scheduled recording is currently not covered by tests in the DTT. The vendor MUST create test cases related to scheduled recording and implement the tests in the tool post DTT WG validation.			

Ticket	Summary	Type	Priority
#1942	[CR19.06_2.6] Add test cases for tampering rule	ChangeRequest	Medium
Tampering rule is currently not covered by tests in the DTT. The vendor MUST create test cases related to tampering like Motion Region Detector rule.			

Ticket	Summary	Type	Priority
#1943	[CR 2479] We do not have check of updated requirements for GetStreamUri	Enhancement	Medium
The vendor MUST investigate if there is a need for check of updated requirements for GetStreamUri as per [CR2479].			

Ticket	Summary	Type	Priority
#1944	[Analytics] PTZ Motion Region Configuration: do we need new tests?	Enhancement	Medium
Motion region detector rule section in Analytics service spec was updated with new fields: • PTZPresetMotionSupport in Motion region detector options • PresetToken in Motion region detector rule configuration Currently DTT does not test these optional parameters. The vendor MUST investigate if there is a need to add a new feature and corresponding test cases to create Motion region detector rule with PresetToken.			

Ticket	Summary	Type	Priority
#1949	[Profile D] Proposal to update existing test cases for changed/removed events for door and access point	Enhancement	Medium
The vendor MUST improve existing test cases to exclude operator action for devices with CRUD: - If device supports CRUD commands according to feature definition, skip steps with event generation (events will be checked in new tests) - If device does not support CRUD commands according to feature definition, leave test case as is			

Ticket	Summary	Type	Priority
#1960	[EVO] Errata update in between releases	Enhancement	Medium

It must be possible to maintain and update errata in between test tool releases. Currently errata items are listed in a static document updated for every release/in between releases.
The vendor MUST come up with a proposal for the following tasks needed:
- Listing in DoC/feature list xml
- Active errata list update in between test tool releases

Ticket	Summary	Type	Priority
#1974	Automatically save the test report when finished	Enhancement	Medium

Sometimes we launch the DTT unattended during the night, we expect to find the test results the next morning. But if the PC reboots or turns off for whatever reason the test reports are lost.
It would be great if there was an option to automatically save the test reports at the end of the test, even if some tests are failed. The vendor MUST come up with a proposal to save test reports even after a PC reboot.

Ticket	Summary	Type	Priority
#1988	[PlugFest] Requests list on debug tab is empty	Defect	Medium

It was reported by at least 2 companies that there were no requests in the debug tab after the installation. The issue occurs when several administrator users use the PC and install the DTT.

Initial investigation revealed the following sequence leads to problem:
First admin installs the DTT "for everyone"
When a different admin runs the DTT the request list is empty

The vendor MUST investigate and fix this issue to ensure that the request list is populated for multiple users.

Ticket	Summary	Type	Priority
#2011	[CR 2541] Add FormatType to ACCESSCONTROL-9-1-4 checks	ChangeRequest	Medium

 As per Network Specification v19.12 ACCESSCONTROL-9-1-4 test must be extended with FormatType simple item. The vendor MUST make the necessary change in the test and implement in the tool.

Ticket	Summary	Type	Priority
#2040	[EVO] Implement possibility to pass conformance using HTTPS connection	Task	Medium

 In DTT it is currently not possible to pass conformance using HTTPS. The vendor MUST come up with a proposal to pass conformance using HTTP connection and investigate the impact on streaming test cases.

Ticket	Summary	Type	Priority
#2041	[EVO] Implement possibility to use HTTPS for Debug tab	Task	Medium

 The vendor MUST investigate on the possibility to use HTTPS for Debug tab. The vendor MUST come up with a proposal on how this feature will be implemented.

Ticket	Summary	Type	Priority
#2054	Event 3-1-25v1706 fails for multiple sources	Defect	Medium
The real time pull point set sync test fails if multiple events are sent for the selected topic. It is verified that with one camera having one relay using the relay event the test passes while using the digital inputs of which two exist fails. Reason is that only a single pull is executed on the first get. The current workaround of setting the timeout to 5 seconds is not an elegant solution. The vendor MUST come up with a proposal to change the limit of the first get to a higher number.			

Ticket	Summary	Type	Priority
#1304	PTZ using Media2 test specification - testing all PTZ nodes	Defect	Low
In the current test specification, we only test with the same PTZ node for all tests. This means that problems on other PTZ nodes will not be detected. Also, since all tests use the same PTZ node, tests like "5.3.1 PTZ HOME POSITION OPERATIONS (CONFIGURABLE) USING MEDIA2 PROFILE" and "5.3.2 PTZ HOME POSITION OPERATIONS (FIXED) USING MEDIA2 PROFILE" may not always run because of the PTZ node's supported features. In some conditions where PTZ nodes support different features, these tests could be run using a different PTZ node. Proposal The vendor MUST make changes in the tool to test all PTZ nodes.			

Ticket	Summary	Type	Priority
#1853	Profile M: Test Spec: Rule engine- Line crossing counter	Task	Low
The vendor MUST add test cases for Line crossing counter.			

Ticket	Summary	Type	Priority
#1854	Profile M: DTT: Rule engine- Line crossing counter	Task	Low
The vendor MUST produce Device Test Tool that verifies Line crossing counter according to test case written for ticket #1853. New test cases should be located under 'Analytics'.			

Ticket	Summary	Type	Priority
#1648	[EVO] Decrease conformance execution time	Enhancement	Low
The vendor must investigate and propose improvements in the tool to reduce conformance times which may include (but not limited to) Operation delays, refactoring tests, etc. A investigation report listing the improvements for the agreed upon tests must be generated for WG review and approval.			

Ticket	Summary	Type	Priority
#1713	[EVO] Mark test cases that passes with complaints in yellow color	Enhancement	Low

 Some tests report that something is not entirely correct, but not enough to fail the test. One example is CREDENTIAL-5-1-10 that passes but complains: "WARNING: The DUT send wrong SOAP 1.2 fault message. The env:Receiver/ter:ConstraintViolated/ter:MinIdentifiersPerCredential SOAP 1.2 fault message is expected".
When developing the device, it would be nice to find those test cases so they can be corrected. That is not possible now (unless you view all output from all test cases) since they all are marked in green.
The vendor MUST make changes in the logic to mark such tests in yellow.

Ticket	Summary	Type	Priority
#1791	[CR 2295] Encoding field description in VEC/AEC was changed to Video/Audio Media Subtype	ChangeRequest	Low

In the Media2 Service Spec the following changes were made:
- Encoding field description in Video Encoder Configuration was changed to Video Media Subtype
- Encoding field description in Audio Encoder Configuration was changed to Audio Media Subtype

The vendor MUST investigate if the description needs to be updated in the Media2 Configuration and RTSS using Media2 test specification documents.

Ticket	Summary	Type	Priority
#1811	Namespace prefix tests - suggestion to modify or add new test case(s)	Enhancement	Low

We have had several recent experiences with ONVIF-conformant devices not properly handling XML namespaces (particularly prefixes). For example, the device expects a namespace prefix to match a specific string, or the device cannot properly reference namespaces declared in the SOAP envelope or inline in individual elements. This results in conformant devices not working with conformant clients.

The vendor MUST investigate the possibility to modify some set of existing testcases to use random namespace prefixes, or perhaps to introduce a few new cases to validate proper XML handling.

Ticket	Summary	Type	Priority
#1889	[PlugFest] Some companies ask about PTZ Preset Tours test cases	Enhancement	Low

Several companies during the PlugFest requested for testing of PTZ Preset Tours functionality.
The vendor MUST come up with proposals for:
- PTZ Preset Tours test cases in DTT (out of profiles, but could be added even in conformance)
- Functionality in Debug tab

Ticket	Summary	Type	Priority
#1930	[CR2450] Fault to be updated for testcases	ChangeRequest	Low
The vendor MUST replace env:Receiver\ter:ConstraintViolated\ter:MinIdentifiersPerCredential with env:Sender\ter:ConstraintViolated\ter:MinIdentifiersPerCredential in CREDENTIAL-5-1-10 test case.			

Ticket	Summary	Type	Priority
#1932	[CR19.06_2.1] Active Sessions	ChangeRequest	Low
The following "should" events were added to Media2: • tns1:Monitoring/ActiveSessions/VideoEncoder • tns1:Monitoring/ActiveSessions/AudioEncoder • tns1:Monitoring/ActiveSessions/AudioDecoder • tns1:Monitoring/ActiveSessions/Metadata The vendor MUST add testing of these events in DTT if the device supports them.			

Ticket	Summary	Type	Priority
#1994	Test steps missing in GUI	defect	Low
Some steps are missing in the GUI. The xml log shows all steps, so they are only missing from the GUI. The vendor MUST investigate the cause of the issue and resolve.			

Ticket	Summary	Type	Priority
#2047	Analytics-1-1-1 fails for prefix xs	defect	Low
The error message for Analytics-1-1-1 is not elegant and not understandable. This is validated by the Zorba library. The vendor MUST investigate and propose how to improve Zorba fault in case xml does not correspond to schema.			

Ticket	Summary	Type	Priority
#1887	[PlugFest] AAC backchannel - typo in step details text (PCMU instead of AAC)	defect	Trivial
There is a typo in text of step: "Initiated the backchannel subsession PCMU" instead of "Initiated the backchannel subsession AAC" in the following tests: • MEDIA2_RTSS-3-1-7-v19.06 BACKCHANNEL – AAC (RTP-Unicast/UDP, IPv4) • MEDIA2_RTSS-3-1-8-v19.06 BACKCHANNEL – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv4) • MEDIA2_RTSS-3-1-9-v19.06 BACKCHANNEL – AAC (RTP/RTSP/TCP, IPv4) • MEDIA2_RTSS-3-1-23-v19.06 BACKCHANNEL STREAMING BY POST – AAC (RTP-Unicast/RTSP/HTTP/TCP, IPv4) The vendor MUST correct the typo in the tests.			

Ticket	Summary	Type	Priority
#2012	[CR 2552] Comment about Device Management Security part	Enhancement	Trivial

The following comment from CR 2552 could not be seen in devicemgmt.wsdl "nice view" (
https://www.onvif.org/ver10/device/wsdl/devicemgmt.wsdl):

The definition and interfaces for the Security have been deprecated with release 16.12.The Security part was handed over to Security Configuration Service. For backward compatibility, the methods remain in the devicemgmt.wsdl file.

This could cause misunderstanding regarding deprecated commands.

The vendor MUST investigate and make necessary changes.

Appendix E -   Project Napar– Initial Scope-of-work

The **DTT WG, Profile M WG and Profile D WG** use a ticket system to manage all work items for the

Contractor and for the working group. The tickets can be consulted at https://wush.net/trac/onvif-ext.

However, any details about what kind of work items are to be carried out will be discussed and determined

at a later stage.

The Contractor must follow the instructions detailed here https://wush.net/trac/onvif-ext/wiki/best_practices_vendor_company when working with the tickets.

Ticket	Summary	Type	Priority

Project Napar will also include items postponed from Project Mahou.

Appendix F - Technical Requirements for the ONVIF Device Test Tool

1. The ONVIF Device Test Tool v20.06 MUST be used as a base for this project.

2. The existing functionality of the ONVIF Device Test Tool v20.06 MUST NOT be altered other than to incorporate the functions and operations requested herein or where the workgroup explicitly approves the changes.

3. All configuration changes that are made by a test case MUST be reverted before the test case terminates.

4. Test case definitions MUST support sequential execution of test cases.

5. The structure and coding practice MUST adhere that of the MSDN: Design Guidelines for Class Library Developers, to be easily amended and maintained.

6. The software source code MUST be documented in good practice in English in the standard source code comments scheme. Documentation MUST at least cover classes, methods, parameters, return values, and exceptions. Level of details of the documentation must be such that ONVIF, or a knowledgeable third party requested by ONVIF, can further develop and/or amend the software.

7. The software source code MUST be developed using the workgroup-provided Version Control System. The workgroup is currently using Subversion for version control of the Device Test Tool and Device Test Specification files.

8. Development and validation of the tool MUST be done on 64-bit versions of Windows 7/Windows 10.

9. Implementation MUST be done in C# [C-Sharp] according to respective standards ECMA-334 and ISO/IEC 23270 and SHOULD use the .NET [dotnet] framework.

10. All external frameworks used MUST be approved by the workgroup, actively maintained by the community, and covered by an open license.

11. The executable application, the source code and the accompanying documentation MUST be delivered in electronic form to the workgroups, using the External Wiki (https://wush.net/trac/onvif-ext) before the projects closure or on request by the working group.

12. The workgroups MUST report defects against the executable application, the source code and the accompanying documentation using the External Wiki (https://wush.net/trac/onvif-ext).

13. User interaction during execution of tests SHOULD be avoided where possible. Introduction of user interaction MUST be approved by the **DTT WG**.

14. Help pages MUST include images and text describing all operation modes of the ONVIF Device Test Tool.

15. Minimum hardware requirements

    a. Ordinary Intel x86 architecture-based PC

    b. One Ethernet network interface

16. Software requirements

    a. Operating system: 64-bit versions of Windows 7 Professional and later versions.

    b. Graphical User interface in American English language

Appendix G - Outline of Quality Related Deliverables

1. Document and execute test cases to validate the behaviour of the ONVIF Device Test Tool, including but not restricted to:

    a. Correctness of documents generated by the Tool.

    b. Correctness of test procedure in Conformance Mode.

    c. Execute Test Tool with sample inputs provided by members of ONVIF.

    d. Generation of DoC only after a completely successful run.

2. Provide a "lessons learned" document regarding any relevant problems or issues found during development, including but not restricted to:

    a. Correctness of WSDL files.

    b. Correctness of technical specifications.

    c. Ambiguity or limitations of the specifications.

    d. Process and communication with the workgroup.