Request for Quotation (RfQ)

For ONVIF Technical Services Committee

Device Test Tool Evolution WG

Project "Ash"

Circulation: 2017-June-02

Quotation Due: 2017-June-19

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 is 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. Project Purpose

The purpose of this project is to improve the maintainability and usability of a) the ONVIF Device Test Tool and b) other artifacts related to the ONVIF Device Test Tool that are owned by the ONVIF TSC and/or ONVIF TSC WG Device Testing. These improvements are intended to facilitate for future ONVIF Device Test Tool projects, increasing flexibility as well as making work easier and faster.

- The project SHALL NOT do any work related to test coverage or ONVIF conformance requirements. Any such changes will only be done in projects managed by the ***ONVIF TSC WG Device Testing***.
- The project 'Ash' SHALL NOT deliver to or affect the upcoming official versions of the ONVIF Device Test Tool, unless explicitly approved and agreed to by the ***ONVIF TSC and ONVIF TSC WG Device Testing***. Instead the improvements made in this project ("Ash") MAY be delivered to and affect official versions of the ONVIF Device Test Tool in a separate future project. No such project is yet approved, but such a possible follow up project will be referred to as "Bulbasaur" for ease of reference. During the Seoul meeting (November 2017) ***ONVIF TSC WG DTT Evolution*** will decide upon an RfQ for the project "Bulbasaur" considering accepted prototyping elements from project "Ash" for integration into a next release of the regular DTT.

3. Service Requested

The service requested is to assist the ***ONVIF Device Test Tool Evolution WG*** to achieve the objectives of the project, by:

a) Documenting the current situation related to the objectives listed below.

b) Proposing improvements in line with the objectives below, including estimated effort for each improvement suggestion.

c) Implementing improvement suggestions approved by the ***ONVIF Device Test Tool Evolution WG.***

The objectives of the project are:

1. Facilitate concurrent test tool development from multiple specialist teams: reduce development time by parallel work and ability to draw on other expert knowledge needed.
2. Future proofing, ease maintenance and ease adding new functionality (lower technical debt): modularity, code/architecture, libraries used, etc.
3. Improve stability & reliability of the test tool.
4. Ease work for test operators: Guidance and documentation integrated to the ONVIF Device Test Tool, automation/integration to test lab tools.
5. Improve trust in and credibility of conformance documentation generated by the ONVIF Device Test Tool (Declaration of Conformance, XML Feature List).
6. Provide ***ONVIF WG Device Testing*** with tools, templates etc. to improve efficiency.

For a further description of the service requested, see Section 4, Description of Requested Service.
For a list of deliverables, see Appendix B.

4. 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 scope of work for the project is service based. The project SHOULD use the following resources (manpower equivalent).
    a) 800 man-hours total, including project management, design and implementation.
    b) 300 man-hours for service buffer. This amount of man-hours should be allocated as a service buffer. In case the allocated resources above run out and additional work items need to be carried out during the course of the project, this resource should be used.
4. The project MUST include the work items outlined in Appendix B. The ***ONVIF Device Test Tool Evolution WG*** can at any time decide to drop or postpone a work item. As the project is service based, some work items MAY be postponed to future projects.
5. The project MUST consider the purpose of the project outlined in section 2 Project Purpose and the project objectives outlined in section 3 Services Requested for all work items.
6. The project MUST respect the style and structure of the ONVIF Test Specification when updating the documents.
7. 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.
8. Any further maintenance and expansion work done to the ONVIF Device Testing 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.

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

5. Execution of Service

The execution of the service must fulfil the following requirements:

1. The service must be executed by capable and qualified employees or sub-contractors under the same rules.
2. For deliverables requesting a development / improvement proposal from the contractor, the description must contain an overview of all the options investigated and their evaluation regarding risks and opportunities (including e.g. technical, organisational, resource aspects). The solution proposed for prototyping & implementation must be described in all necessary details and a proposal on the effort (and potential resources) needed for prototyping must be provided. Already known open items / risks for the implementation in the regular Device Test Tool must be highlighted.
3. The Contractor must provide a bi-weekly progress report to the ***ONVIF Device Test Tool Evolution WG*** outlining the tasks performed and the issues encountered.
4. 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.
5. Throughout the projects the ***ONVIF Device Test Tool Evolution 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 will be requested to attend ONVIF Face-to-Face Meetings.
    b. The Contractor will be requested to participate in an ONVIF Developers' Plugfest (ODP) for testing of prototypes and feedback on deliverables.
    c. At least one technical resource and one manager assigned to the projects must be legally authorized to travel outside of their home country.

6. 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 Testing 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.

7. 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.

8. Quotation

The quotation MUST at least contain the following information:

1. Cost of requested service and all other related costs.
2. Estimate for travel expenses for two representative of the Contractor.
   Verona (Italy), 12-13 Sep 2017 [F2F] and Seoul (Korea), 08-14 Nov 2017 [ODP & F2F]
   Travel arrangement should be consolidated when possible in case the Contractor is working on parallel projects for ONVIF.

9. References

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

- Profile S Specification
- Profile C Specification
- Profile G Specification
- Profile Q Specification
- Profile A Specification
- Profile T Specification RC
- Network Interface Specifications
- Feature Discovery Specification
- Test Case Summary for Profile Conformance
- Device Test Specification
- Conformance Process Specification

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 ***Device Test Tool Evolution WG*** will inform the Contractor and discuss appropriate actions.

10. Contacts

General contact:

ONVIF

Stan Moyer, *Vice President, Executive Director*

onvif_ed@inventures.com

San Ramon, CA 94583

Phone: +1.925.275.6621

Fax: +1.925.275.6691

www.onvif.org

Technical Contacts:

Technical issues and questions concerning the ONVIF specifications, schemas, and this Request for Quotation MUST be addressed to:

ONVIF TSC Device Test Tool Evolution WG

Baldvin Gislason Bern

Phone: +46 7 298 90 298

E-mail: baldvin.gislason.bern@axis.com

ONVIF Test Tool Manager

Madhu Rao, Chairman, Device Testing WG

Phone: +91 98409 21405

E-mail: madhu.rao@developer.onvif.org

Appendix A - Timeline for Service

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

02-Jun-2017	Circulation of this Request for Quotation
19-Jun-2017	Quotation due to be received by the ***ONVIF Office*** and ***ONVIF Device Test Tool Evolution WG*** by e-mail
29-Jun-2017	Contractor selected & agreement signed

Project Ash

03-Jul-2017	Project start
01-Sep-2017	Delivery of all documentation and improvement proposals (Deliverables D.1, D.2, D.4, D.5, D7, D.8, D.11, D13 in Appendix B)
12-Sep-2017	F2F Meeting Verona, review of improvement proposals
03-Nov-2017	Delivery of improvements approved in Verona F2F
08-Nov-2017	Plugfest testing and feedback
13-Nov 2017	F2F Seoul, review of improvement proposals not yet covered
11-Dec-2017	Delivery of improvements approved in Seoul F2F
18-Dec-2017	Project closure

Appendix B - Definition of Project 'Ash' Deliverables

ID	Name	Description

D.1	Architectural documents	• Documents describing the
		  ○ Current functional structure of the DTT.
		  ○ Current software architecture of the DTT.

D.2	Architectural improvement proposal	• Documents describing possible improvements to the functional structure. • Documents describing possible improvements to the software architecture.
D.3	Architectural improvement	• The implementation is dependent on the review results for the proposed improvements. • The implementation will be limited to a prototype and will not be included in an official version of the ONVIF Device Test Tool unless explicitly requested by the Device Testing WG. • As the project is service based, the implementation will be limited by the work hours available in the project.
D.4	Documentation of open source components used	• Documents describing the open source components currently used by the ONVIF Device Test Tool, together with a description, such as licensing and status of open source projects.
D.5	Proposal for changes to open source components used	• Document(s) describing possible improvements, such as replacing currently used components with new components.
D.6	Implementation of changes to open source components used	• The implementation is dependent on the review results for the proposed improvements.
D.7	Improvement proposal for Management tab and related functionality	• Document(s) describing possible improvements.
D.8	Improvement proposal for Debug tab and related functionality	• Document(s) describing possible improvements.
D.9	Improvement of Management tab and related functionality	• The implementation is dependent on the review results for the proposed improvements. • The implementation will be limited to a prototype and will not be included in an official version of the ONVIF Device Test Tool unless explicitly requested by the Device Testing WG.
D.10	Improvement of Debug tab and related functionality	• The implementation is dependent on the review results for the proposed improvements. • The implementation will be limited to a prototype and will not be included in an official version of the ONVIF Device Test Tool unless explicitly requested by the Device Testing WG.

D.11	Proposal for how to improve trust in and credibility of conformance documentation generated by the DTT	• Currently the documents can easily by changed or manipulated, intentionally or by mistake. • The objective is to improve trust (from current situation), but not to achieve “perfect trust” at any cost. • Ease of implementation and ease of use will be important factors when evaluating the proposal.
D.12	Implementation of increased trust in conformance documentation generated by the DTT	• The implementation is dependent on the review results for the proposed improvements.
D.13	Proposal for tools, templates, etc. that can improve the efficiency of the ONVIF WG Device Testing members.	• The ONVIF WG Device Testing members will be consulted for this deliverable.
D.14	Implementation of tools, templates, etc. that can improve the efficiency of the ONVIF WG Device Testing members.	• The implementation is dependent on the review results for the proposed improvements.
D.15	Test description and test results for reliability and stability testing of the ONVIF Device Test Tool	• If this testing finds reliability or stability issues, then the project will create bug reports and address those.