

Open Network Video Interface Forum Conformance Process Specification

May, 2009



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Contributors

Tim Holloway

Ann-Elise Lady

Ann-Sofie Rase

Baldvin Gislason Bern

Christian Gehrmann

Daniel Elvin (Ed.)

Edyta Tomczak

Göran Haraldsson

Hans Olsen

Olle Blomgren

Markus Wierny

Andy Ryu

Dongseuk Park

Seungmin Lee

Younghun Na

Andreas Schneider

Anixter

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Axis Communications

Bosch Security Systems

Samsung

Samsung

Samsung

Samsung

Sony Corporation

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1 Introduction

This document defines and describes the Conformance Process of the Open Network Video Interface Forum (ONVIF). The conformity assessment is the “activity concerned with determining directly or indirectly that relevant requirements are fulfilled,” as stated in the ISO/IEC Guide 2: Standardization and Related Activities: General Vocabulary [ISO/IEC G2].

1.1 Scope

This Conformance Process Specification of the Open Network Video Interface Forum (ONVIF) defines the requirements for claiming conformance with the ONVIF specifications. It covers both conformance requirements for Network Video Transmitters, e.g. Network Cameras and Video Encoders, as well as Network Video Clients, e.g. Network Video Recorders or Video Management Software applications.

1.2 Normative References

- | | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [ONVIF Core] | ONVIF, “Core Specification”
URL: http://www.onvif.org/ |
| [ONVIF Logo] | ONVIF, “Logo Guidelines”
URL: http://www.onvif.org/ |
| [ONVIF RoM] | ONVIF, “Rules of Membership”
URL: http://www.onvif.org/ |
| [ONVIF Test] | ONVIF, “Test Specification”
URL: http://www.onvif.org/ |
| [ONVIF Tool] | ONVIF, “Test Tool”
URL: http://www.onvif.org/ |
| [RFC2119] | “Key words for use in RFCs to Indicate Requirement Levels,” S.Bradner,
March 1997.
URL: http://www.ietf.org/rfc/rfc2119.txt |

1.3 Informative References

- | | |
|----------------|---------------------------------------------------------------------------------------------------------------------|
| [ISO/IEC G2] | ISO/IEC, “Guide 2: Standardization and Related Activities: General Vocabulary,” 2004. |
| [ISO/IEC CV] | ISO/IEC 17000, “Conformity assessment – Vocabulary and general principles,” 2004. |
| [ISO/IEC CS] | ISO/IEC 17050, “Conformity assessment – Supplier’s declaration of conformity – Part 1: General requirements,” 2004. |
| [ONVIF Schema] | ONVIF, “Schema”
URL: http://www.onvif.org/ |

2 Terms and Definitions

2.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this specification are to be interpreted as described in [RFC2119].

These keywords are capitalized when used to unambiguously specify requirements over protocol and application features and behavior that affect the interoperability and security of implementations. When these words are not capitalized, they are meant in their natural-language sense.

2.2 Definitions

Member	Organization participating in good standing in the Full, Contributing, or User membership level in ONVIF.
Network Video Client (NVC)	Network video receiver or controller device communicating with an NVT over an IP network.
Network Video Transmitter (NVT)	Network video server (an IP network camera or an encoder device, for example) that sends media data over an IP network to an NVC.

2.3 Abbreviations

NVC	Network Video Client
NVT	Network Video Transmitter
ONVIF	Open Network Video Interface Forum
WSDL	Web Services Description Language

3 ONVIF Conformance Fundamentals

3.1 Objectives

The objectives of the ONVIF Conformance Process are the following.

- Ensure a common understanding of conformance and what is required to claim ONVIF conformance.
- Promote interoperability between ONVIF conforming NVTs and NVCs.
- Define common procedures and requirements for all forum members towards self-declaration of conformance of relevant product(s) with the ONVIF specifications and for the resulting possibility to communicate this with the use of the ONVIF Logo.

3.2 Conformance process outline

The ONVIF conformance process is a self-declaration scheme under which the Member may state for an NVT and/or NVC being subject of the declaration that it meets the [ONVIF Core], positively responds to the test routines of the [ONVIF Test], and passes the [ONVIF Tool] if available for this type of device. Figure 1 describes the relation of these elements.

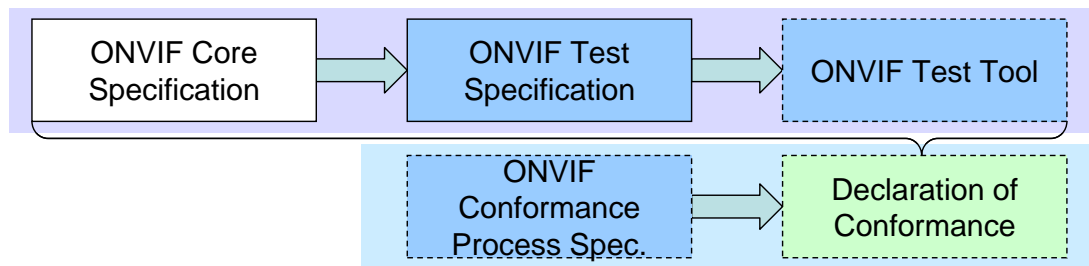


Fig. 1 Elements of ONVIF Conformance Process

[ONVIF Core] is the technical specification including both the specification document and its accompanying WSDL and schema specifications. ONVIF conformance means that the requirements stated in [ONVIF Core] are fulfilled according to the defined requirement levels. To increase the confidence in the conformance statement, ONVIF also provides [ONVIF Test] and [ONVIF Tool]. This Conformance Process Specification defines how a Member MUST use these components to claim conformance with the ONVIF specifications.

3.3 Self-declaration

The ONVIF Conformance Process is a Self-declaration process. That is, for a Member to claim an NVT or an NVC conforms to the ONVIF specification, the Member MUST ensure that all of the requirements of this ONVIF Conformance Process are fulfilled, according to Section 5, *Conformance Requirements for Network Video Transmitters (NVT)*, or Section 6, *Conformance Requirements for Network Video Clients (NVC)*, whichever is applicable. The responsibility for the conformance statement is solely the Member's. See also Section 3.7, *Restricted Liability of ONVIF*.

3.4 Requirement levels

[ONVIF Core] states five different requirement levels as listed below.

- MUST
- MUST IF SUPPORTED
- SHOULD
- SHOULD IF SUPPORTED
- OPTIONAL or MAY

The general interpretation of these requirement levels is as defined in [RFC2119]. The following sections describe the use of these keywords in the ONVIF specifications together with the “IF SUPPORTED” condition. All references refer to [ONVIF Core].

3.4.1 MUST

If a service, feature, or functional block is marked as “MUST,” an ONVIF conforming NVT or NVC MUST unconditionally implement this service, feature, or functional block. Failure to comply with this is a violation of the ONVIF Conformance requirement.

Example (informative): The statement “An NVT MUST provide the device management, media and event services,” as described in [ONVIF Core] Section 5.1.8 *Service Requirements*, SHALL be interpreted as all of the listed services MUST unconditionally be supported by all ONVIF conforming NVTs.

3.4.2 MUST IF SUPPORTED

The “MUST IF SUPPORTED” requirement level states that if the NVT supports the referenced service, feature, or functional block in any possible way, it MUST then also support this service, feature, or functional block as defined in [ONVIF Core]. Failure to comply with this is a violation of the ONVIF Conformance requirement.

An NVC MUST unconditionally support all “MUST IF SUPPORTED” services, features, and functional blocks. Failure to comply with this is a violation of the ONVIF Conformance requirement.

Example (informative): In Chapter 13 of [ONVIF Core] it states: “An NVT with pan, tilt and zoom capability MUST support the PTZ service.” This MUST be interpreted as all Dome and PTZ Network Cameras MUST support the PTZ Control service as defined in [ONVIF Core]. A fixed camera SHOULD NOT support the PTZ Control service as it does not provide any means for moving the camera.

3.4.3 SHOULD

The “SHOULD” level indicates the service, feature, or functional block, SHOULD be implemented by the NVT or NVC. Failure to comply with this is however not a violation of the ONVIF Conformance requirement.

Example (informative): Support for IPv6 is a “SHOULD” requirement, as stated in Chapter 6, *IP Configuration*, “The NVT and NVC SHOULD support IPv6 based network communication.” The interpretation of this is that it is strongly recommended that the IPv6 service is supported, however not a mandatory requirement.

3.4.4 SHOULD IF SUPPORTED

As with the “SHOULD” requirement level, the “SHOULD IF SUPPORTED” states that the service, feature, or functional block SHOULD be implemented if it is supported by the NVT or NVC in any other way, however not resulting in a violation of the ONVIF Conformance requirement if unsupported.

Example (informative): Section 9.1.1, *Get Image Settings*, is an example of a “SHOULD IF SUPPORTED” requirement. It states, “If the Video Source supports any of the imaging settings as defined by the ImagingSettings type in the [ONVIF Schema], then it SHOULD be possible to retrieve the imaging settings from the NVT through the GetImagingSettings command.”

3.4.5 OPTIONAL

The “MAY” or “OPTIONAL” requirement level indicates that the support or lack of support for this service, feature, or functional block MAY or MAY NOT be supported by the NVT or NVC. Failure to comply with this is not a violation of the ONVIF Conformance requirement.

Example (informative): “An NVC MAY receive audio and video streams simultaneously from more than one NVT,” from Section 11.1.2.2.1, *Media synchronization*, is an example of such a “MAY” requirement.

3.5 Set of Specifications

The following specifications comprise the Set of Specifications referred to in this ONVIF Conformance Process Specification.

- ONVIF Conformance Process Specification – This document.
- [ONVIF Core] – The core technical specification together with its accompanying WSDL and schema specifications.
- [ONVIF Test] – The specification defining basic test routines and procedures to ensure a subset of [ONVIF Core] is fulfilled. Currently available for NVTs only.
- [ONVIF Tool] – The tool to test conformance to the Test Specification. Currently available for NVTs only.

In addition to these specifications and tools, all errata issued for any of these as well as all amendments, at the time of referencing the Set of Specifications, are a REQUIRED part of the Set of Specifications.

3.6 Relations between specifications

The Set of Specifications, as defined in Section 3.5, contains separate specifications and tools, each with its independent version numbering. Therefore, it is instrumental in the understanding of their relationship that the [ONVIF Test] and [ONVIF Tool] are each other's counterpart but do only cover a subset of [ONVIF Core]. [ONVIF Test] and [ONVIF Tool] will not completely cover all services, features, or functional blocks, or all possible fault scenarios. As stated in Section 5, passing the test of [ONVIF Tool] is a necessary but not sufficient condition to claim conformance with the ONVIF Specifications.

The statements below highlight the relationship between the components of the ONVIF Specifications.

- [ONVIF Core] is the specification to which an NVT or NVC MUST conform to.
- [ONVIF Test] provides guidelines for testing a subset of the ONVIF Core Specification for NVTs.
- [ONVIF Tool] identically covers the test routines specified in the corresponding [ONVIF Test] for NVTs.

As newer versions of [ONVIF Core] are developed, the set of services, features, and functional blocks will be extended. As the scopes of the specifications are independent, the documents are developed independently. The evolution of the functional coverage over time for the above three ONVIF deliverables is illustrated in Figure 2.

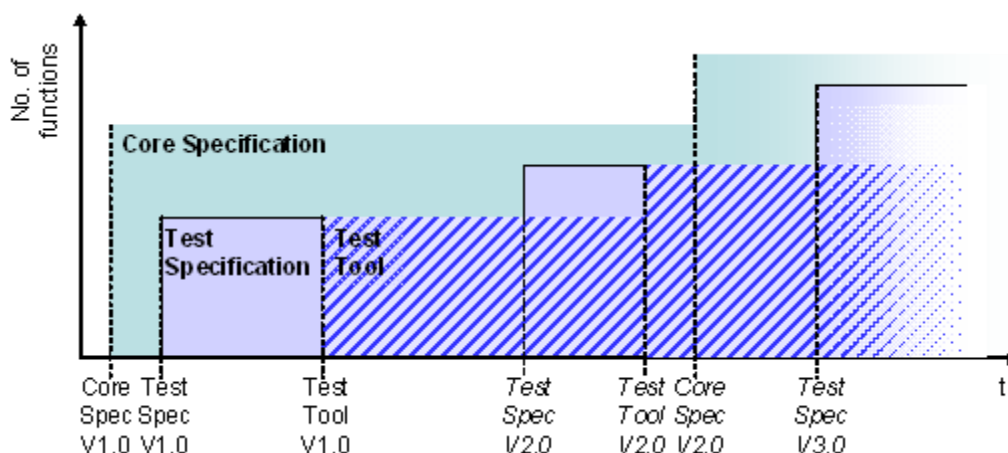


Fig. 2 Test Specification and Test Tool evolution

3.7 Restricted Liability of ONVIF

Each Member is solely responsible to ensure conformance for all NVTs and NVCs for which the Member has declared conformance with the ONVIF specifications. The Member compiles and maintains documentation on procedures and test results for each of those devices. The Member provides this documentation upon request to ONVIF or its assigned representative for proof.

The ONVIF Forum has no liability for Members claiming NVTs and/or NVCs are ONVIF conforming.

- The ONVIF Forum has no liability for manufacturers' self-declaration.
- The ONVIF Forum has no liability for performance and/or quality of products stating ONVIF conformance.
- The ONVIF Forum has no liability for the actual implementation of the ONVIF specifications.

Instead the ONVIF forum:

- provides and maintains on a best effort basis a Test Tool or alternatively other interoperability test means, for basic testing as defined in the Test Specification;
- relays product claims from customers to the concerned member;
- maintains its right to request test protocols and related product documentation for conformance verification;
- maintains its right to withdraw product listings from its database (if this service is provided); and
- maintains its right to temporarily suspend the membership or exclude members failing to follow its statutes according to [ONVIF RoM].

3.8 Conformance Services

Neither the ONVIF Forum nor its committees provides conformance testing services.

3.9 Conformance statement

A Member with an NVT and/or an NVC that fulfills the conformance requirements as stated in Section 5 or Section 6, whichever is applicable, MAY use the ONVIF Logo according to [ONVIF Logo]. The ONVIF Logo MUST NOT be changed or modified, as regulated in [ONVIF Logo].

A Member MAY claim an NVT and/or NVC that fulfills these conformance requirements conforms to the ONVIF Specification but MUST then also provide additional information to what version of [ONVIF Core] it conforms to. Failure to comply with this is a violation of the ONVIF Conformance requirement.

4 Declaration of Conformance

NVTs and NVCs to be declared ONVIF Conforming MUST conform to the requirements stated in either Section 5, *Conformance Requirements for Network Video Transmitters (NVT)*, or Section 6, *Conformance Requirements for Network Video Clients (NVC)*, whichever is applicable.

4.1 Role and responsibility

As the conformance process is a self-declaration process, each Member is solely responsible for securing conformance according to the procedures stated herein.

4.2 The Declaration of Conformance

To state conformance with [ONVIF Core] the Member MUST provide the Declaration of Conformance (DoC) according to the form in either Annex A or Annex B, Declaration of Conformance (DoC), whichever is applicable. The Member MUST use one of the DoC forms presented in the annexes. Failure to comply with this is a violation of the ONVIF Conformance requirement.

4.3 Submission to ONVIF office

A Member MUST send each Declaration of Conformance (DoC) issued to the ONVIF Office prior to publicly claim ONVIF conformance. The ONVIF Office MUST send a confirmation of receiving the DoC back to the issuing Member. This process can be based on exchanging physical papers, or electronic files, or a combination. The details of the submission process are outside the scope of this document. See ONVIF web <http://www.onvif.org/> for details.

The ONVIF Office DOES NOT review or judge the Declaration of Conformance (DoC), but only confirms the document has been archived by the Office.

4.4 Documentation requirements

The Declaration of Conformance MUST be accompanied by the result report of [ONVIF Tool]. The NVT/NVC identifier fields of this report and those of the Declaration of Conformance MUST match identically.

As long as there exists no Test Tool for NVCs, the report is excluded from this requirement for NVCs.

4.5 Listing by ONVIF

ONVIF will provide the service of listing ONVIF conforming NVTs and NVCs on the ONVIF web <http://www.onvif.org/>. The listing will be based on the information submitted in the Declaration of Conformance. The details for this process are, however, outside the scope of this specification. See the ONVIF website <http://www.onvif.org/> for details.

ONVIF MAY limit the period of time during which a device is listed on the ONVIF website. ONVIF MAY exclude devices from the list which are being reported as non-conforming. In the later case, the Member is informed.

4.6 Conformance Testing

Each NVT and NVC MUST execute the tests for conformance to one of the ONVIF supported [ONVIF Core] versions. At the time of the conformance testing, the Set of Specifications, as defined in Section 3.5, MUST incorporate all issued erratas and amendments, as well as all updates to all of the entities of the Set of Specifications that relates to the specific [ONVIF Core] version. Conformance MUST be tested for at least one of the supported [ONVIF Core] versions and SHOULD be tested for the latest version available. See the ONVIF website <http://www.onvif.org/> for a list of currently supported specifications.

The Declaration of Conformance is valid only for the one defined Set of Specifications, as defined in Section 3.5, in addition to the NVT/NVC-specification. If any entities are changed that identifies the NVT or NVC in the submitted Declaration of Conformance, a new, complete test according to this ONVIF Conformance Process Specification MUST be executed, and a

new Declaration of Conformance MUST be sent to the ONVIF Office according to this Specification.

4.7 Compatibility between specification versions

ONVIF intends to, as far as possible, make later versions of [ONVIF Core] be backwards compatible. The Member MAY claim an NVT and/or NVC fulfills the conformance requirements for more than one version of [ONVIF Core].

4.8 Valid time of the Declaration of Conformance

The Declaration of Conformance (DoC) has no expiration. The DoC is consequently valid indefinitely for the NVT or NVC it concerns.

4.9 Withdrawal of conformance

In case the Member gets aware of the NVT and/or NVC for which the Member has declared conformance, does not anymore meets the requirements, the Member MUST instantly withdraw the Declaration of Conformance and MUST instantly inform the ONVIF Office accordingly.

The ONVIF Forum has the right to request reasonable material proving the conformance requirements, from the Member. Failure to provide this MAY result in a withdrawal of the ONVIF Conformance statement, and thus the right to claim the NVT and/or NVC is ONVIF conformant.

5 Conformance Requirements for Network Video Transmitters (NVT)

This section defines the requirements of the conformance process for Network Video Transmitters (NVTs). Conformance **MUST** be validated for any of the ONVIF supported versions of [ONVIF Core], see Section 3.5, including all published erratas and amendments related to the specification version at the time of testing. The versions of the specifications included in the Set of Specifications are an essential part of the conformance statement.

To claim conformance with the ONVIF Specification, the manufacturer of the NVT **MUST** ensure all of the following requirements are fulfilled.

- Membership **MUST** be fulfilled according to the [ONVIF RoM].
- The NVT **MUST** support all of the “**MUST**” and “**MUST IF SUPPORTED**” services, features, and functional blocks according to [ONVIF Core] with the interpretation of Section 3.4, Requirement levels.
- The NVT **MUST** successfully pass all the tests defined in [ONVIF Test]. If any of the test cases has been invalidated by a more recent errata or amendment to the [ONVIF Core] of [ONVIF Test], the Member **MUST** explicitly state which test case has failed and reference the errata or amendment invalidating this test case. This statement **MUST** then accompany the submitted DoC.
- The NVT **MUST** pass the test as executed by [ONVIF Tool]. If any of the test cases has been invalidated by a more recent errata or amendment of the [ONVIF Core] the Member **MUST** explicitly state which test case has failed and reference the errata or amendment invalidating this test case. This statement **MUST** then accompany the submitted DoC.
- The Member **MUST** ensure that the support for services, features, and functional blocks, as reported by the [ONVIF Tool], are in accordance with the services, features, and functional blocks supported by the NVT. This **IS NOT** and **CAN NOT** be verified by the [ONVIF Tool].

5.1 Interpretation (Informative)

Successful testing using [ONVIF Tool] is necessary but not sufficient for claiming ONVIF Conformance. The Member is responsible for guaranteeing proper implementation of [ONVIF Core]. The [ONVIF Test] and the accompanying [ONVIF Tool] are available to assist in the conformance process but do not guarantee complete conformance. This responsibility is solely on the Member to ensure.

6 Conformance Requirements for Network Video Clients (NVC)

This section describes the requirements of the conformance process for Network Video Clients (NVCs). Conformance **MUST** be validated for any of the ONVIF supported versions of [ONVIF Core], see Section 3.5, including all the published erratas and amendments related to the specification version at the time of testing. The versions of the specifications included in the Set of Specifications are an essential part of the conformance statement.

To claim conformance with the ONVIF Specification, the manufacturer of the NVC **MUST** ensure all of the following requirements are fulfilled.

- Membership **MUST** be fulfilled according to the [ONVIF RoM].
- The NVC **MUST** support all of the “**MUST**” and “**MUST IF SUPPORTED**” services, features, and functional blocks according to [ONVIF Core] with the interpretation of Section 3.4, Requirement levels.
- The NVC **MUST** correctly communicate with at least TWO (2) ONVIF Conforming NVTs from at least TWO (2) different NVT Members. Both NVTs **MUST** conform to the ONVIF Specification version that the NVC conforms to.

As there is currently no Test Specification available for NVCs, a Member providing an NVC **MUST** ensure ONVIF conformance using ONVIF conforming NVTs.

The selection of NVT Members as well as retrieving NVTs, is outside the scope of the ONVIF forum and this Conformance Process Specification.

7 Plug-fest (Informative)

The ONVIF forum will organize Plug-fests to ensure interoperability. These plug-fests are NOT MANDATORY to participate in, however participation is strongly encouraged. There will be both virtual plug-fests, connecting NVTs and NVCs over the Internet, and physical plug-fests. Information concerning these will be announced to all Members of the ONVIF Forum.

Annex A

Declaration of Conformance – NVT

This Declaration of Conformity is issued by the indicated Member which is solely responsible for declared conformance. Conformity is valid ONLY for the NVT identified when used in a manner consistent with the intent of the referenced documents.

Responsible Member:

Member name: _____

Member address: _____

Identified NVT:

Product name: _____

Product hardware version: _____

Product firmware version: _____

Product software version: _____ (if applicable)

The NVT identified above conforms to the following specifications:

ONVIF Core Specification, version: _____

ONVIF Test Specification, version: _____

ONVIF Test Tool, version: _____

Signature of Authorized Representative:

Signature: _____

Name: _____

Title and department: _____

Date: _____

This Declaration of Conformance MUST be accompanied by the result report of [ONVIF Tool].

Annex B

Declaration of Conformance – NVC

This Declaration of Conformity is issued by the indicated Member which is solely responsible for declared conformance. Conformity is valid ONLY for the NVC identified when used in a manner consistent with the intent of the referenced documents.

Responsible company:

Member name: _____

Member address: _____

Identified NVC:

Product name: _____

Product hardware version: _____ (if applicable)

Product software version: _____

Operating System: _____ (if applicable)

Operating System version: _____ (if applicable)

The NVC identified above conforms to the following specifications:

ONVIF Core Specification, version: _____

Reference NVT device used (Device 1):

Member name:	_____
Product name:	_____
Product hardware version	_____
Product firmware version:	_____

Reference NVT device used (Device 2):

Member name:	_____
Product name:	_____
Product hardware version	_____
Product firmware version:	_____

Signature of Authorized Representative:

Signature:	_____
Name:	_____
Title and department:	_____
Date:	_____

Annex C

Communication Address of ONVIF Office (Informative)

Declaration of Conformance document **MUST** be sent either as a physical document to the following address:

Address:	Open Network Video Interface Forum Inc. (ONVIF) 2400 Camino Ramon, Suite 375 San Ramon, CA 94583 United States of America
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OR in an electronic format in the Portable Document Format (PDF) document format, to the following e-mail address:

E-mail address:	DoC@onvif.org
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