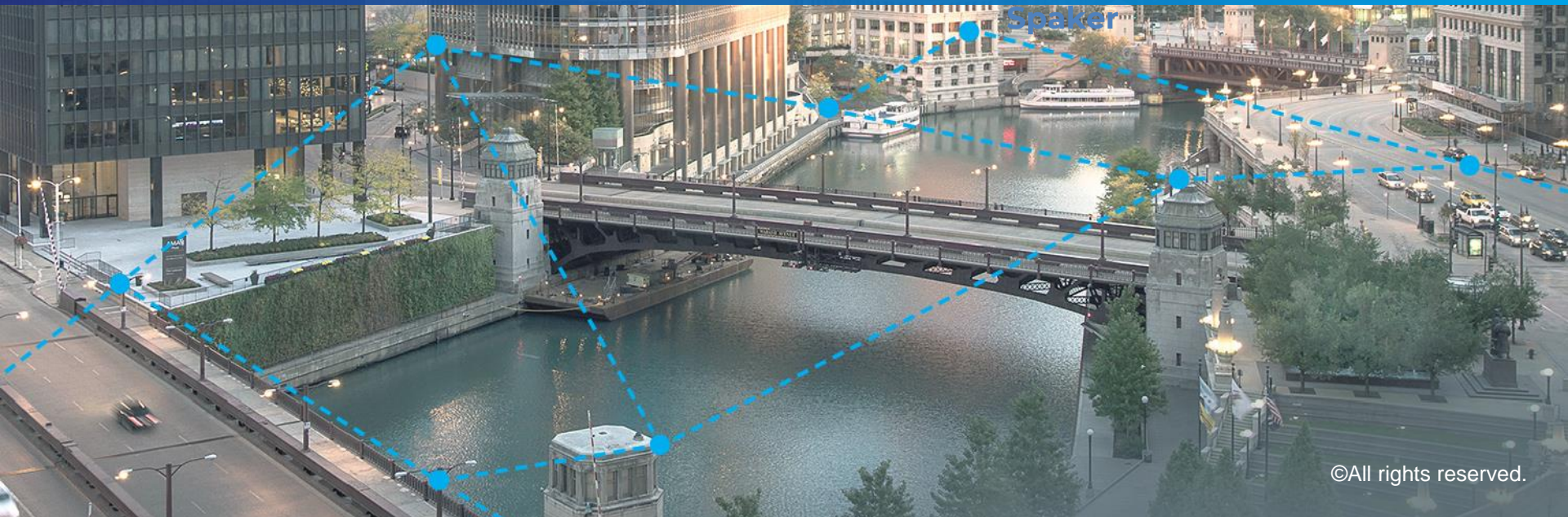


November 2022

ONVIF Conformance



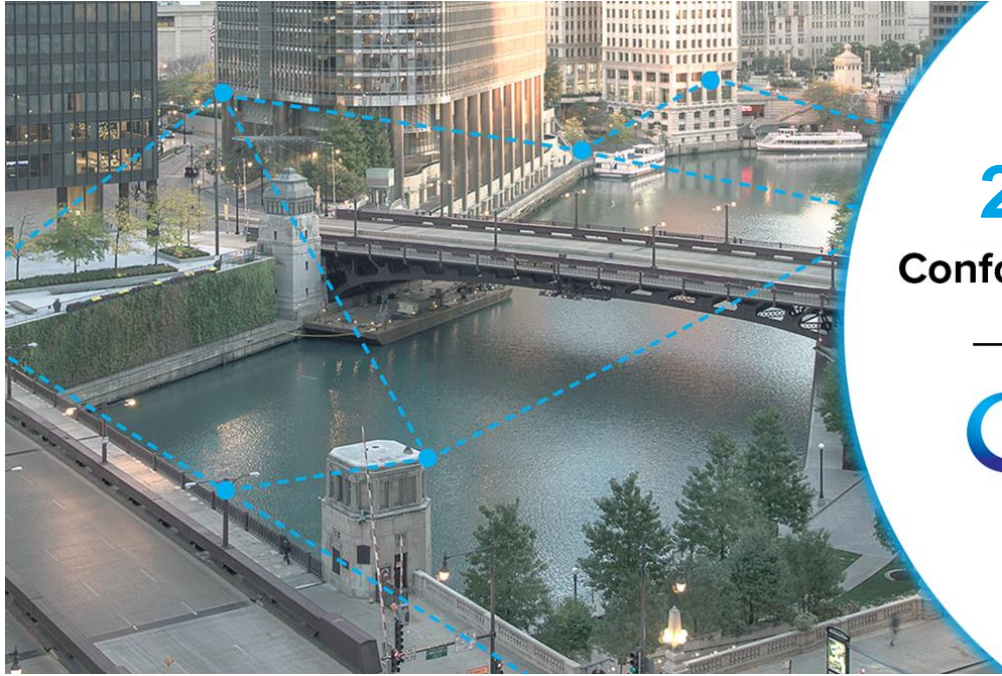
Topics

- Overview
 - Cornerstones of ONVIF
 - Benefits of ONVIF Conformance
- What Does ONVIF Conformance Mean?
 - How Do You Know if a Product is ONVIF Conformant?
 - ONVIF Conformance
 - Misconceptions About ONVIF Conformance
 - ONVIF Conformance Process
 - Profile and Supported Features
 - Device and Client Test Tools
 - Conformant Product Information
 - Checklist
 - Logo and profile symbols

Overview

ONVIF Profile Conformant Products















ONVIF Profile A, C, G, M, S and T conformant products.



24,000+
Conformant Products



ONVIF Profiles

-  **ONVIF®** |  **A** For access control configuration
-  **ONVIF®** |  **C** For door control and event management
-  **ONVIF®** |  **D** For access control peripherals
-  **ONVIF®** |  **G** For edge storage and retrieval
-  **ONVIF®** |  **M** Metadata and events for analytics applications
-  **ONVIF®** |  **S** For basic video streaming
-  **ONVIF®** |  **T** For advanced video streaming

Cornerstones of ONVIF

- Standardization of communication between IP-based physical security products
- Interoperability regardless of brand
- Openness to all companies and organizations



Benefits of ONVIF Conformance

Enables different brands of products to ***work together***, eliminating the need to develop specific drivers



End users

Greater flexibility & choice
No brand lock-in
Future proof



Integrators

Greater flexibility & choice
Easier integration
Future proof



Manufacturers

Easier market acceptance
Help win projects
Drive industry growth

What does ONVIF conformance mean?

How to know if a product is ONVIF conformant

- Check that the product and firmware/software version is listed here on the ONVIF website at: onvif.org/conformant-products/
- Site is the only authoritative source for all ONVIF conformant products

Search Q

ONVIF® About Join Benefits Profiles & Specifications News & Events Contact Members' Area

Conformant Products

This page gives you access to the database of ONVIF conformant products and is the authoritative source for determining whether or not a product is officially ONVIF conformant and supports one or multiple ONVIF profiles. A product is registered in the database after it successfully passes the relevant ONVIF test tool and all the necessary documents have been submitted to ONVIF by the member manufacturer. Conformance is tied to a product's specific firmware/software version and is valid indefinitely for the specific firmware/software version of that product. To ensure an existing product is conformant, the product's firmware/software version must match the version listed for the product in the database. ONVIF releases new device and client test tools twice a year (June and December), and each test tool version is valid until a new version is released plus a further grace period of about three months. For more information, see the [Conformance FAQ](#) page.

Note that products may use ONVIF specifications but they may not claim to be ONVIF conformant without completing the [ONVIF Conformance Process](#). False conformance claims could include declaring a product to be "ONVIF conformant" or using the ONVIF profile symbol on a product when the conformance process has not been followed. If you cannot find in the database a product that claims to be conformant, please [click here to inform ONVIF](#).

For members, the [Conformance Process](#) web page provides details on how to submit a conformant product and information on adhering to the [ONVIF Brand and Trademark Usage Policy](#).

Product Search

Application Type Profile(s) Manufacturer Product Name

Device, Client Select Select Search Q

Export results to CSV

Showing 50 of 23680 products

ONVIF Conformance

For a product to be listed as conformant on the ONVIF website/database, it must meet the following criteria:

- ✓ The product is claimed by an ONVIF member
- ✓ The product, together with a specific firmware/software version, conforms to one or more ONVIF profiles
- ✓ It has completed the ONVIF Conformance Process
 - Passing the ONVIF device/client test tool for one or many ONVIF profile(s)
 - Relevant documents have been submitted by the manufacturer to ONVIF through the Member Portal

Misconceptions About ONVIF Conformance

- Membership **does not** equal conformance
- Conformance is **not** a mark of quality or endorsement from ONVIF
- ONVIF **does not** provide certificates of conformance or other guarantees of conformance
- Products may use ONVIF specifications but they **may not** claim to be ONVIF conformant without completing the ONVIF Conformance Process



For details, see the ONVIF Brand and Trademark Usage Policy at onvif.org/wp-content/uploads/2022/05/onvif-brand-standards-20220516.pdf

ONVIF Conformance Process

Self-declaration by ONVIF member for its products

**Implement
mandatory +
conditional
features of
ONVIF
profile**

**Pass
device/client
test tool**

New tool
versions
released every
June &
December

**Submission
to ONVIF**

DoC
Interface Guide
Feature list

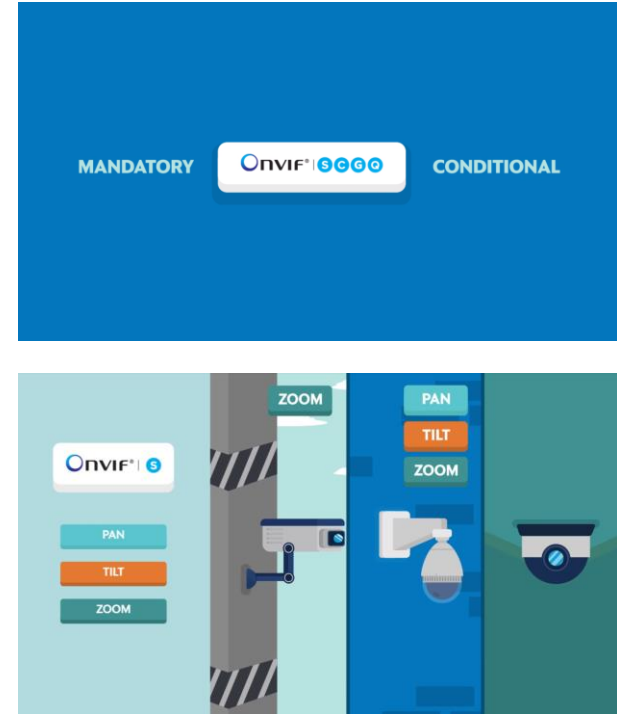
**Developers'
Plugfest**

Verification with
other member
conformant
products

For details, see the ONVIF Conformance Process at onvif.org/profiles/conformance

Profile & Supported Features

- Features in a profile are either mandatory or conditional
- Mandatory features must be supported
- Conditional features only supported if relevant
 - i.e., PTZ functions can only be supported in PTZ cameras



ONVIF Device & Client Test Tools

Designed to:

- Discover all APIs specified by ONVIF profiles and many more beyond profile specifications
- Check for correct API implementation and determine if the product supports the necessary APIs to meet various profile requirements

All supported ONVIF APIs are reported in the product's Declaration of Conformance (DoC) document

Not designed to:

- Assess quality of feature implementation
- Check compatibility between a device and client
 - Does not test specific interactions between client and device
- Check that conditional features of a profile are implemented

Conformant Product Information

onvif.org/conformant-products/

Product name	Device	G M S T	Firmware	Approval date
01	Application type: Device		Product name: Product name	
	Model: Product name			
	Related products: Not Applicable ⓘ Related Products have not been individually tested.			
	Test date: Date		Firmware version: Firmware	
	Profiles: G M S T		Category: Fixed Camera	
	FeatureList	DoC	Interface Guide	



Driving IP-based physical security through global standardization

Declaration of Conformance – Device

Profile M features:

General:

Network Configuration: Yes

Streaming:

HTTPS Streaming: NO

Video Streaming: Yes

H264: Yes

H265: Yes

Image Sending:

Sending Image Reference: Yes

Sending Embedded Image: NO

Event Handling:

Pull Points: Yes

MQTT: NO

Analytics:

Analytics Modules Configuration: Yes

Analytics Rules: Yes

Rule Configuration: Yes

Face Recognition Rule: NO

License Plate Recognition Rule: NO

Line Crossing Counter Rule: NO

Object Classification: Yes

Human Face Metadata: Yes

Human Body Metadata: Yes

Vehicle Metadata: Yes

License Plate Metadata: NO

Geo Location Metadata: Yes

Interface Guide

Configuration requirements to set up product




- Product information
- Supported profile(s)
- Information for contacting product support
- Prerequisites
- Installation information
- Default network settings
- Initial login information (i.e. how to create unique username/password, initial device discovery)
- Local configuration (i.e. setup related to ONVIF features)
- How to enable ONVIF behaviors (if applicable)
- Query capabilities

Checklist that raises compatibility levels between a conformant device & client

- ✓ Check device and client for same ONVIF profile conformance
- ✓ Check device and client for same supported ONVIF features (especially important for conditional features of profiles)
 - on manufacturer datasheet
 - on [Onvif.org/conformant-products](https://onvif.org/conformant-products) with **model name + firmware/software version**
 - in ONVIF **DoC** of both device and client

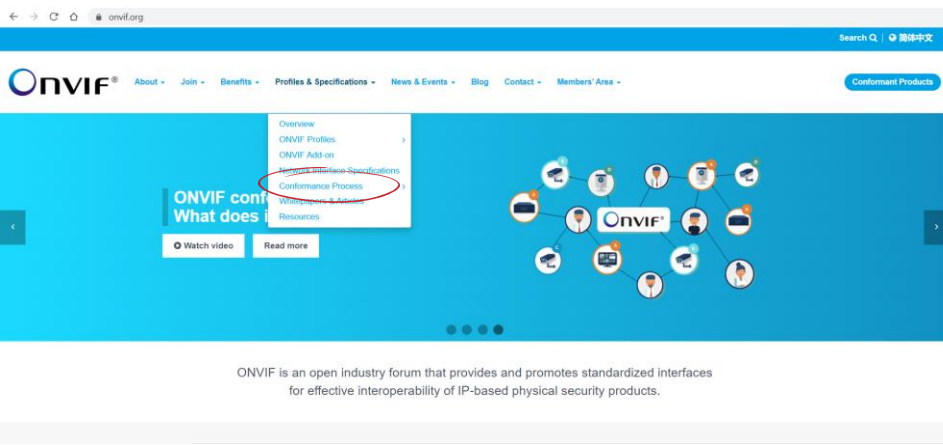
Logo and Profile Symbols

Artwork to be used only by ONVIF and its members

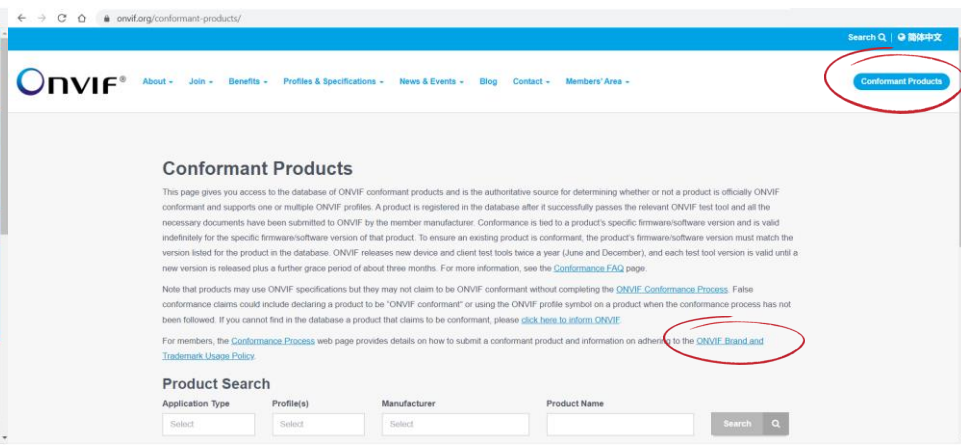
	<ul style="list-style-type: none">• For promoting ONVIF	<ul style="list-style-type: none">• Not for declaring ONVIF membership• Does not denote an ONVIF conformant product• Not for use with any product
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	<ul style="list-style-type: none">• For declaring ONVIF product conformance to one or more profiles	<ul style="list-style-type: none">• Not for use in declaring ONVIF membership

- ONVIF actively pursues false claims to protect the ONVIF brand
- Improper conformance claims can be reported at: onvif.org/contact/report-improper-conformance-claim/

Resources



onvif.org/profiles/conformance/



onvif.org/conformant-products/

onvif.org/wp-content/uploads/2022/05/onvif-brand-standards-20220516.pdf



Thank you

For more information, visit www.onvif.org

Contact us at <https://help.onvif.org>

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