

ONVIF Corporate Presentation

October 2020

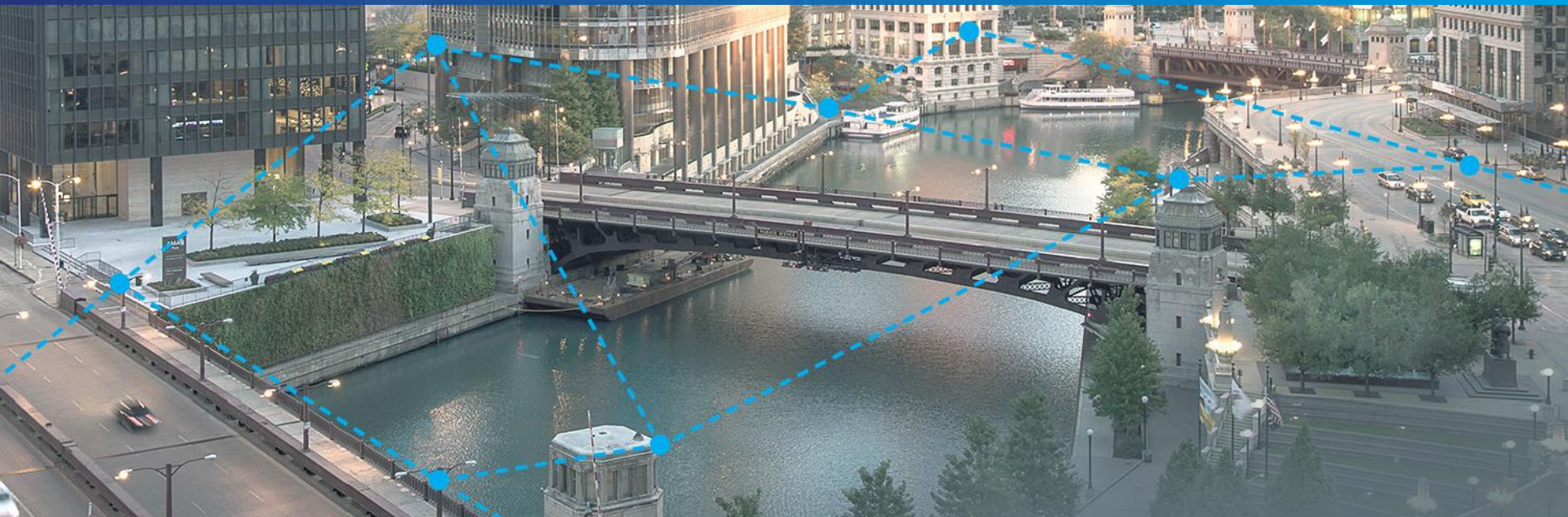


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About ONVIF

About ONVIF

ONVIF is committed to providing and promoting standardized interfaces for effective interoperability of IP-based physical security products.

The cornerstones of ONVIF are:

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

Liaison with International standardization IEC & ISO:

- IEC TC79 WG12 Video (IEC 62676-2-3:2013)
- IEC TC79 WG11 Access Control (IEC 60839-11-1)
- IEC TC9 WG46 CCTV in trains (IEC62580-2)
- ISO JTC1 HEVC (H.265)



Mission & Vision

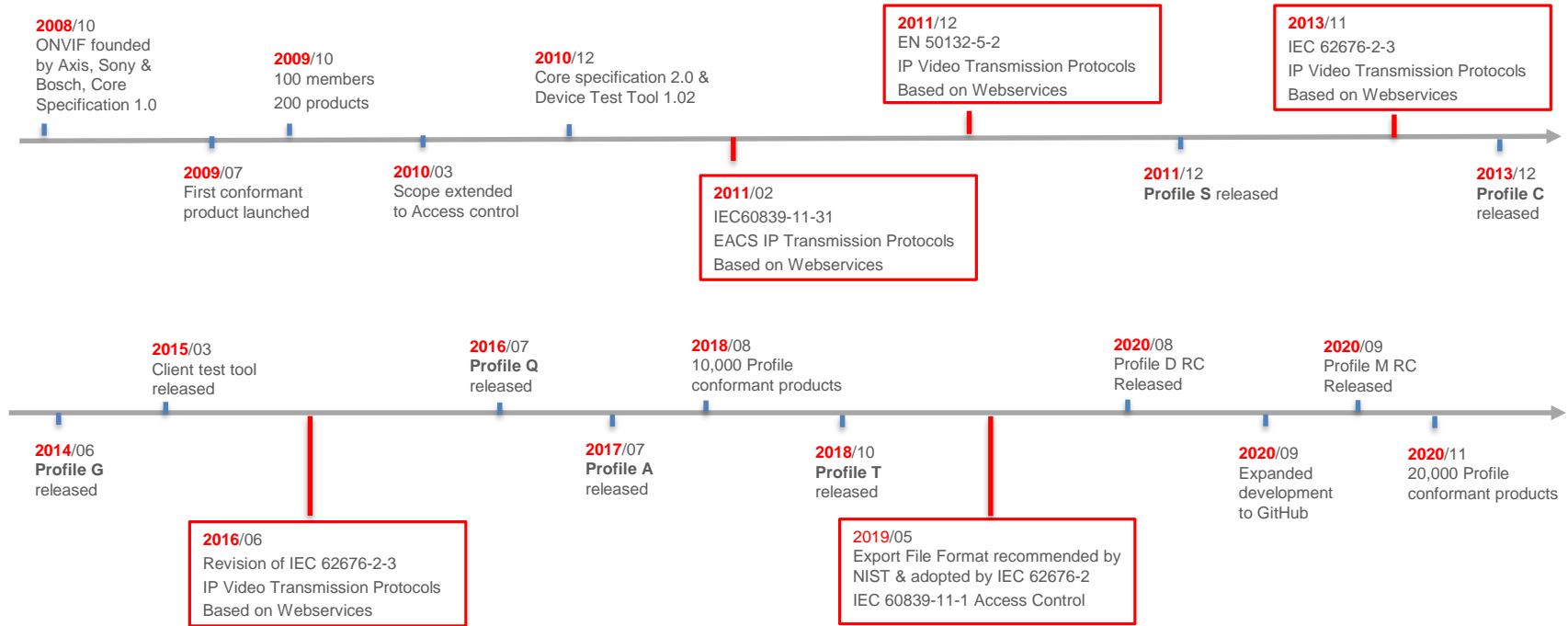
MISSION

To provide and promote open interfaces to the security industry for effective interoperability.

VISION

All security systems share one interface.

ONVIF Development: 2008 to Present



Committee Structure: Roles & Responsibilities

Steering Committee

- Forum strategy, goals, rules and organization
- Finance and budget
- Membership authorization

Technical Committee

- ONVIF specification development
- Technical roadmap
- Approve technical projects

Technical Services Committee

- Development of conformance process and profiles
- Test specification and test tool development
- Developers' Plugfest organization

Communication Committee

- Promote ONVIF
- Internal & external communication
- Communication tools

Committee Structure: Working Groups

Through working groups, ONVIF strives for an effective transfer of customer needs into solutions.

- Technical Committee
 - Core Spec Working Group
 - Security Working Group
 - Physical Access Working Group
 - Video Enhancement Working Group
- Technical Services Committee
 - Device Testing Working Group
 - Client Testing Working Group
 - Profile D Working Group
 - Profile M Working Group
- Communication Committee
 - Use Case Working Group

Member Privileges

Depending on membership level, members can contribute in various ways.

Privileges	Membership Level			
	Full	Contributing	User	Observer
Participate as an ONVIF Steering Committee member	✓			
Vote for ONVIF Steering Committee member	✓			
Chair committee	✓	✓		
Participate as a committee member (except Steering Committee)	✓	✓		
Vote for committee member (except Steering Committee)	✓	✓		
Participate in ONVIF working groups	✓	✓		
Early access to specifications and related material	✓	✓		
Meeting participation obligation (annual meeting and others)	✓	✓		
Access to specification draft	✓	✓	✓	
Use of conformance tools	✓	✓	✓	✓
Ability to declare conformant products	✓	✓	✓	
Use of ONVIF logo for members	✓	✓	✓	✓
Use of ONVIF profile logos for products	✓	✓	✓	
Use of ONVIF Member Forum	✓	✓	✓	
Access to ONVIF Working Group Platform	✓	✓		
Annual Membership Fee	\$20,000 USD	\$10,000 USD	\$2,000 USD	\$500 USD

ONVIF Members

- Membership levels:
 - Full members
 - Contributing members
 - User members
 - Observer members

With a robust and growing member base on six continents, the ONVIF membership is comprised of leading companies in the global IP-based physical security products market, including frontrunners in camera, video management system and access control development.



*Founding members

ONVIF Profile Conformant Products

Rapid growth of ONVIF Profile A, C, G, Q, S and T compliant products.

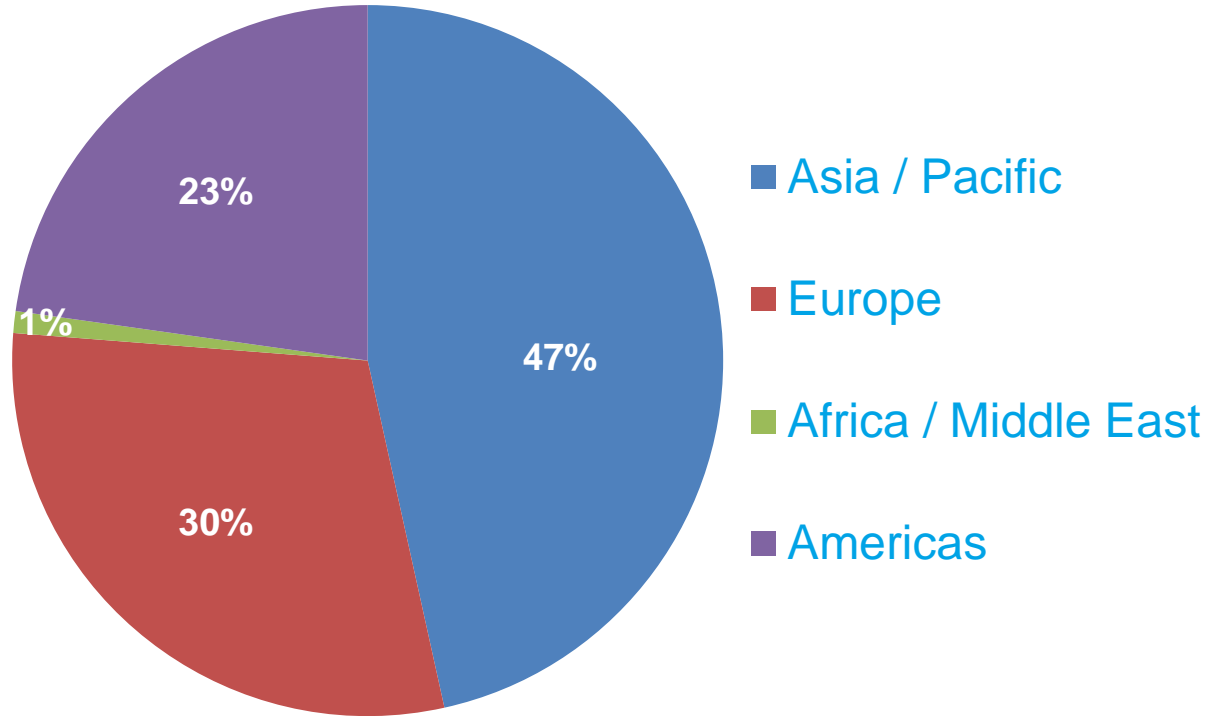
2,273* clients

17,012* devices

19,289* products in total

*Oct 2020

Member Geographical Distribution

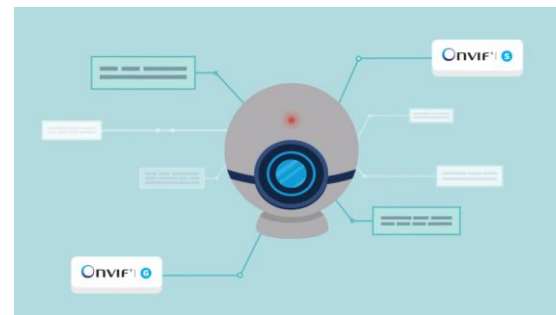


The Profile Concept

The Profile Concept: For Simplified System Design

Key Benefits

- Easier to determine compatibilities between conformant products
- Allows users to easily identify specific interoperability features between client & device
- No need for extensive technical knowledge of specific versions
- Use latest release of ONVIF Device Test Tool or Client Test Tool to test conformance of your product



ONVIF Profiles



For broader access
control configuration



For IP-based access
control



For edge storage
and retrieval



For quick install of
security devices



For IP-based
video systems



For advanced
video streaming

Profiles in draft:

Profile D:

For access control peripherals

Profile M:

Metadata and analytics
for smart applications

Profile A for Access Control Configuration

Our customers are requesting support for increased functionality with access control systems – Profile A is their solution.

- Granting/revoking credentials, creating schedules, changing privileges
- Enables integration between access control and IP video management systems



Did you know?

5th ONVIF Profile
Profile A released July 2017

Profile C for Door Control and Event Management

Our customers are striving for an interconnectivity of video and access products – Profile C is their solution.

- Site information and configuration
- Event and alarm management
- Door access control



Did you know?

2nd ONVIF Profile
Profile C released December 2013

Profile G for Edge Storage & Retrieval

Our customers are striving for an effective storage & retrieval integration – Profile G is their solution.

- Configure, request and control recording
- Receive audio and metadata stream



Did you know?

3rd ONVIF Profile
Profile G released June 2014

Profile Q for Quick Installation

Our customers are requesting plug-and-play functionality with video and access products – Profile Q is their solution.

- Easy setup
- Discovery, configuration and control of conformant devices
- Advanced security functionality



Did you know?

4th ONVIF Profile
Profile Q released July 2016

Profile S for Basic Video Streaming

Our customers are striving for the best option on video management systems and devices – Profile S is their solution.

- Video and audio streaming
- Pan-tilt-zoom control and relay output (conditional feature)
- Video configuration and multicast



Did you know?

1st ONVIF Profile
Profile S released December 2011

Profile T for Advanced Video Streaming

Our customers are requesting support for advanced video streaming – Profile T is their solution.

- H.264 and H.265 video compression
- HTTPS for secure streaming
- Imaging settings
- Alarm events
- Digital input and relay output
- Bidirectional audio



Did you know?

6th ONVIF Profile
Profile T released October 2018

Benefits

ONVIF for System Integrators

Reliable Interoperability

Easy set-up mechanism and advanced security for flexible, cost-effective solutions

Simplified Installation

IP-based physical security products that are easily installed and deployed

Greater Freedom

Flexibility to choose products from different vendors and meet specific needs of your customers



ONVIF for Specifiers

Reliable Interoperability

Easy set-up mechanism for flexible, cost-effective solutions

Greater Freedom

Flexibility to choose products from different vendors and meet specific needs of customers



ONVIF for End Users

Increased Flexibility and Greater Freedom of Choice

Select interoperable products from various brands

Future-proof Systems and More Secure Investment

Security that you can choose from a large variety of vendors as the market develops



ONVIF for Manufacturers

Increased Market Awareness

Valuable exposure for your products and solutions

Access to New Opportunities

IP interoperability opens up new opportunities and access to projects

Build Partnerships

Be part of an established and leading IP interoperability community



Resources & Tools

Conformance Process

Conformance with ONVIF specifications is with self-declaration by the ONVIF member for their manufactured / branded products.

Profile Specification(s)

Network Interface Specifications

Test Specifications

- Provides guidance on the implementation and testing of the features and functions covered by the Profile
- Establishes the requirements for the development of the ONVIF Test Tool

Test Tool

- Software Test Tools for conformance testing of IP-based physical security products with the ONVIF Client or Device Test Specifications

Developers' Plugfest

- Opportunity for members to verify the interoperability of their ONVIF products with those of other members

Conformance: False Claims

Only ONVIF members can make conformance claims and only products that have support for at least one ONVIF profile and that are registered under the ONVIF list of Conformant Products, are considered to be conformant.

ONVIF Conformance

- ONVIF actively monitors product conformance claims and checks that all requirements stated in the ONVIF Profiles Specifications documents have been fulfilled according to the defined requirement levels
- Products claiming improper conformance are asked to cease claims until conformance can be met

Conformant Product List

- The ONVIF Conformant Product List is the authoritative source for determining whether or not a product is officially ONVIF compliant and supports one or multiple ONVIF profiles. <https://www.onvif.org/conformant-products/>

False Claims

- Products that improperly claim ONVIF conformance may be reported using the Improper Conformance Claim form found at <https://www.onvif.org/contact/report-improper-conformance-claim/>

Events & Trade Shows

ONVIF Events

- ONVIF hosts Developers' Plugfests as a forum for member companies to verify their ONVIF interoperability with other manufacturer's technology
- ONVIF hosts bi-annual member meetings to update on the latest developments and gather committee members

Industry Tradeshows & Events

- Demonstrations and speeches are hosted globally at industry trade shows and events including but not limited to ISC West (North America), IFSEC (Europe) and Security China (China)

See website for event schedule:

- <https://www.onvif.org/our-events/>





Thank you

For more information visit www.onvif.org

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