ONVIF Corporate Presentation

Onvif® | Standardizing IP Connectivity for Physical Security

ONVIF Corporate Presentation

About ONVIF

- About ONVIF, Vision & Mission
- Evolution of ONVIF, Major Milestones
- Committee Structure, Members

The Profile Concept

- The Profile Concept – For Simplified System Design
- Profiles – Profile S, Profile C, Profile G, Profile Q & Profile A

Resources & Tools

- Conformance Process
- Training and Events

Benefits

- System Integrators
- Specifiers
- End Users
- Manufacturers

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About ONVIF

ONVIF is committed to providing and promoting open interfaces to the security industry 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 IEC, CENELEC, ISO
- IEC TC79 WG12 Video (IEC 62676-2-3:2013)
- IEC TC79 WG11 Access Control (IEC 60839-11-1)
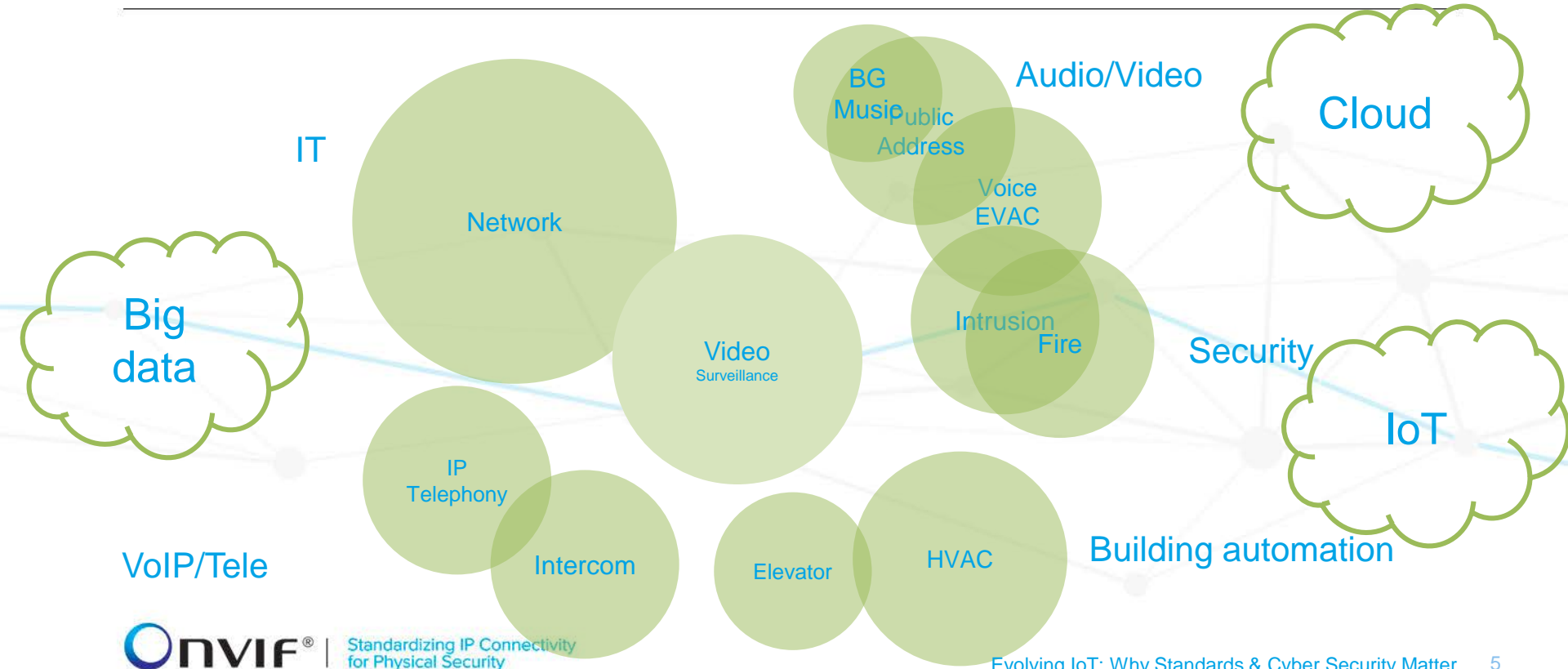- IEC TC9 WG46 CCTV in trains (IEC62580-2)

Digitization   Communication   Availability

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IP Landscape – Industries are Merging

IT

Network

Video Surveillance

BG Music

Public Address

Audio/Video

Voice EVAC

Cloud

Big data

Intrusion

Fire

Security

IoT

IP Telephony

Intercom

Elevator

HVAC

Building automation

VoIP/Tele

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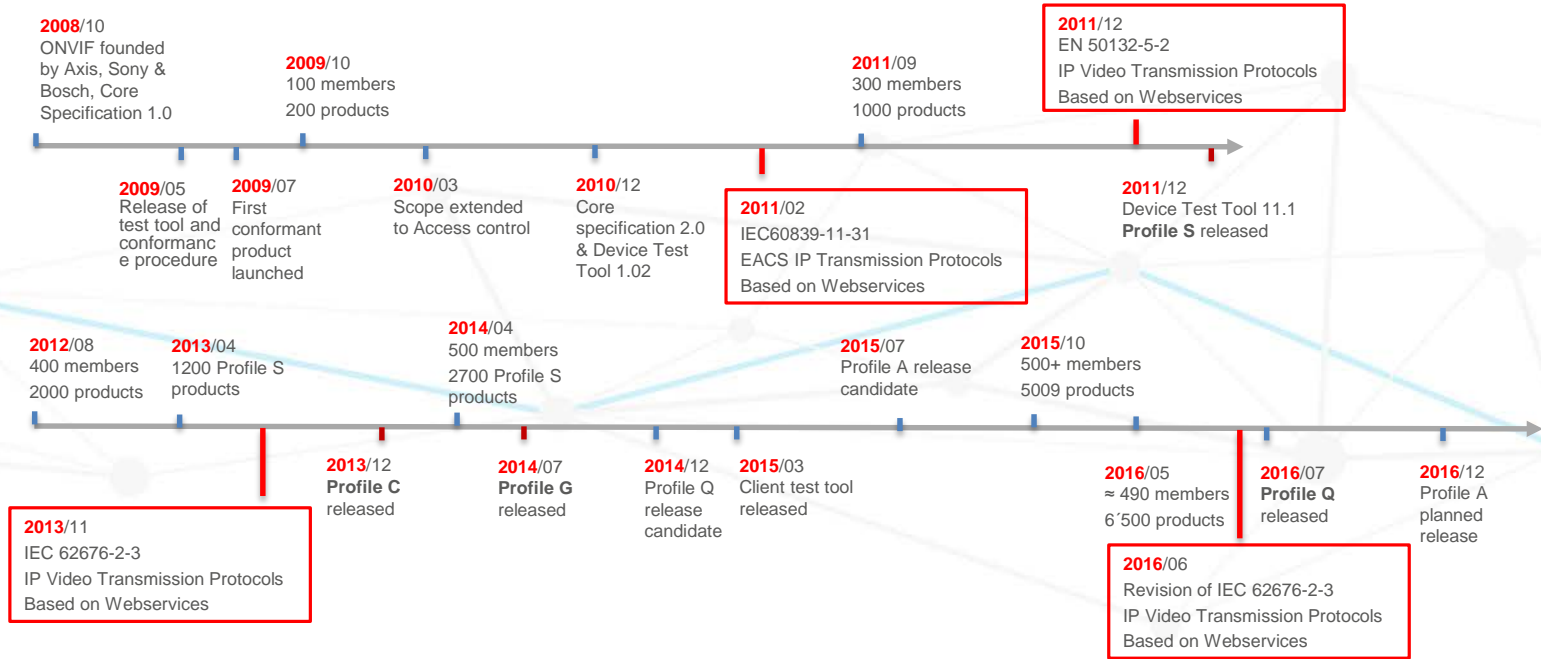
Mission & Vision

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

2008/10
ONVIF founded
by Axis, Sony &
Bosch, Core
Specification 1.0

2009/10
100 members
200 products

2011/09
300 members
1000 products

2011/12
EN 50132-5-2
IP Video Transmission Protocols
Based on Webservices

2009/05
Release of
test tool and
conformanc
e procedure

2009/07
First
conformant
product
launched

2010/03
Scope extended
to Access control

2010/12
Core
specification 2.0
& Device Test
Tool 1.02

2011/02
IEC60839-11-31
EACS IP Transmission Protocols
Based on Webservices

2011/12
Device Test Tool 11.1
Profile S released

2012/08
400 members
2000 products

2013/04
1200 Profile S
products

2014/04
500 members
2700 Profile S
products

2015/07
Profile A release
candidate

2015/10
500+ members
5009 products

2013/12
Profile C
released

2014/07
Profile G
released

2014/12
Profile Q
release
candidate

2015/03
Client test tool
released

2016/05
≈ 490 members
6´500 products

2016/07
Profile Q
released

2016/12
Profile A
planned
release

2013/11
IEC 62676-2-3
IP Video Transmission Protocols
Based on Webservices

2016/06
Revision of IEC 62676-2-3
IP Video Transmission Protocols
Based on Webservices

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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
- Comunication 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

- Communication Committee
  - Use Case Working Group

- Technical Services Committee
  - Device Testing Working Group
  - Client Testing Working Group
  - Profile A Working Group
  - Profile T Working Group
  - Developers' Plugfest Task Force

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Member Privileges

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

PRIVILEGES	MEMBERSHIP LEVEL			
	OBSERVER	USER	CONTRIBUTING	FULL
Participate as a steering committee member				✔
Vote for steering committee member				✔
Chair Committee			✔	✔
Participate as a committee member (except steering committee)			✔	✔
Vote for committee member (except steering committee)			✔	✔
Participate in working group			✔	✔
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 Member logo	✔	✔	✔	✔
Use of ONVIF Profile logos for products		✔	✔	✔
Use of Developer Forum		✔	✔	✔
Access to Working Group Platform			✔	✔
Membership Fee	$500 USD	$2,000 USD	$10,000 USD	$20,000 USD

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ONVIF Members

- Membership levels:
  - Full members
  - Contributing members
  - User members
  - Observer members (open to consultants, media, architects and engineers)

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 S,C and G compliant products

450* clients

6,936* devices

7,386* products in total

*February 2017

Member Geographical Distribution

46%

23%

29%

3%

□ Asia / Pacific

■ Europe

□ Africa / Middle East

■ No./Cen./So. America
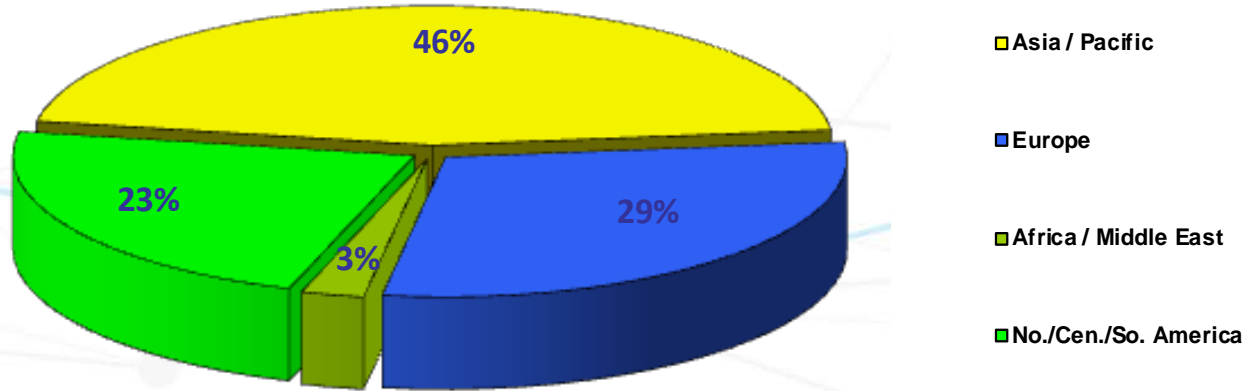
The Profile Concept: For Simplified System Design

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

Available Now

- Profile S for IP-based video systems
- Profile C for IP-based access control
- Profile G for media storage
- Profile Q for quick installation of security devices
- Profile A (release candidate) for advanced access control configuration*

*Draft Profile Specifications for public review and conformant products are not yet available. Please see Profile Policy.

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Profile S for IP-based Video Systems

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

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

Did you know?

1st ONVIF profile
Profile S released December 2011

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

ONVIF® | **G**

Did you know? 3rd ONVIF profile
Profile G released June 2014

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Profile Q for Quick Installation of Security Devices

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

Did you know?

4th ONVIF profile
Profile Q released July 2016

Profile C for IP-based Access Control

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

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

Did you know? 2nd ONVIF profile
Profile C released December 2013

Profile A for Broader 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

ONVIF® | A

Did you know?   5th ONVIF profile
Profile A (release candidate), July 2015

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Conformance Process

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

- Core Specification

- Test Specification
  - Provides guidance on the implementation and testing of the ONVIF Core Specification
  - 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 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/

Improper Conformance 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/

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Outreach & Understanding Market Needs

ONVIF approaches customers for direct feedback via outreach activities.

- Customers: Architects, consultants, engineers, security integrators, end-users and government agencies

Why participate?

- Receive important product information

- Get the latest news on the ONVIF roadmap

- Participate in discussions and contribute to the development of the standard

- Listen and learn from other members

- Learn how ONVIF standards requirements can ensure interoperability among physical security products

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 Annual Meetings to update on the latest developments and gather committee members

Industry Tradeshows & Events

- Training, demonstrations and keynote speeches are hosted globally at industry trade shows and events including but not limited to ISC West in North America and security Essen / IFSEC in Europe

See website for event schedule:

- www.onvif.org/our-events/

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 Specifers

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

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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

Thank you

For more information visit onvif.org

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