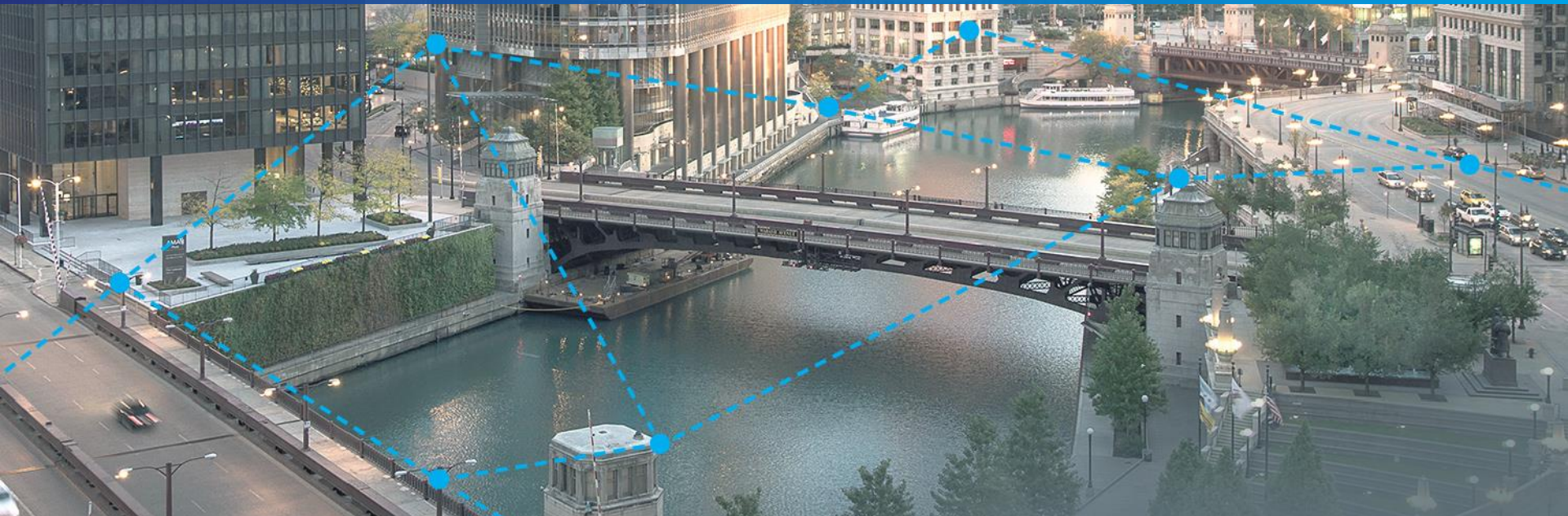


Understand ONVIF in 10 Minutes



ONVIF in a Nutshell

- What is ONVIF?
- Why use ONVIF?
- ONVIF Structure – Specifications and Profiles
- ONVIF Conformant Products
- Where can I get more information?

What is ONVIF?

- ONVIF is an organization, comprised of member companies from within the IP security industry
- The mission of ONVIF is to provide and promote standardized interfaces for effective interoperability of IP-based physical security products
- The three cornerstones of ONVIF are:
 - Standardization of communication between IP-based physical security products
 - Interoperability regardless of brand
 - Openness to all companies and organizations

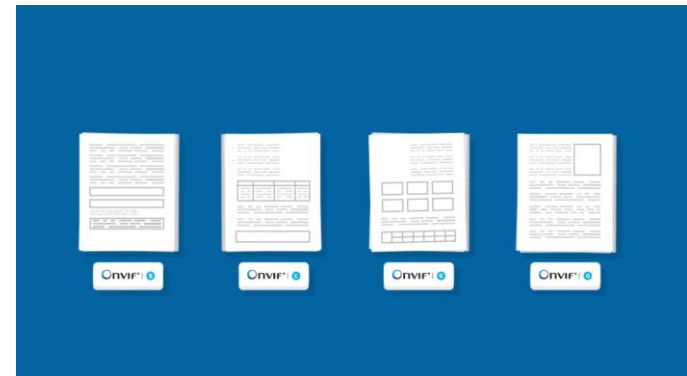
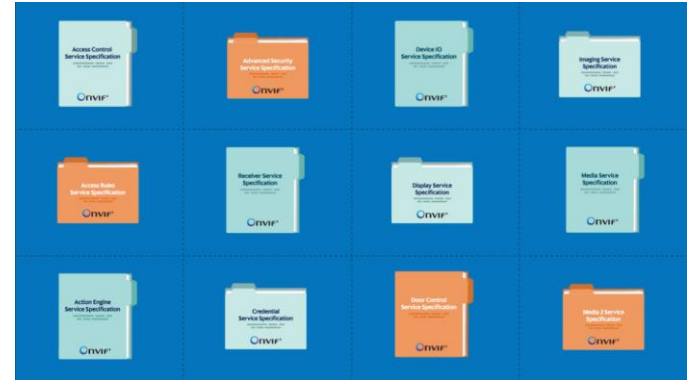
Why Use ONVIF?



- In a multi-vendor environment, ONVIF ensures that products will work seamlessly together
- Chose between more than 20,000+ products to match your exact needs and preferences, regardless of vendor
- As an installer, ONVIF saves you installation time, trouble, cost, and future-proofs your installation

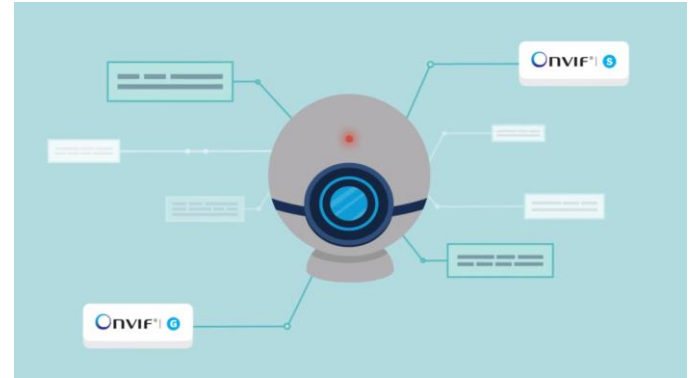
ONVIF Structure

- ONVIF consists of a wealth of specifications
- These specifications are grouped into Profiles
- A Profile has a fixed set of features
- Profiles makes it easier to identify compatible products



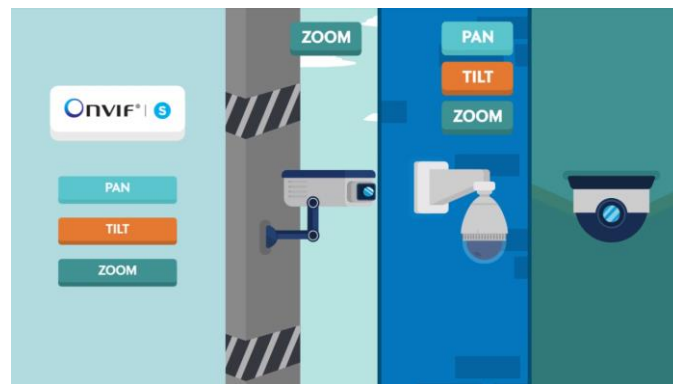
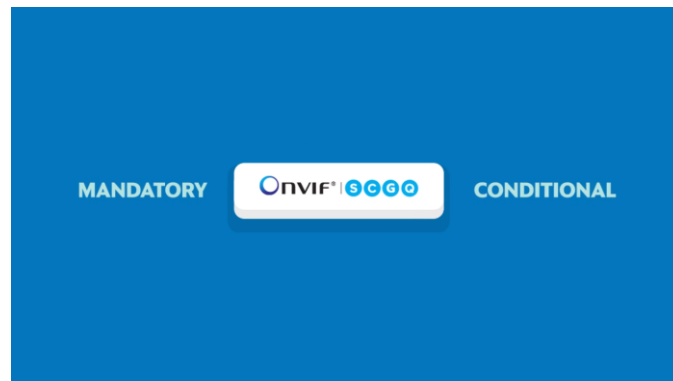
ONVIF Profiles

- The Profile specifies a set of features that must be supported by both client and device
- Conformant products must support at least one Profile...
- ...but can support more than one...



ONVIF Profiles

- Features in Profiles 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 Profiles

- A** Profile A for broader access control configuration
 - C** Profile C for door control and event management
 - D** Profile D for access control peripherals
 - G** Profile G for edge storage and retrieval
 - M** Profile M for metadata and events for analytics applications
 - S** Profile S for basic video streaming
 - T** Profile T for advanced video streaming
-

ONVIF Profiles

- Online overview of features in each profile
- Check list to see exactly which features a profile covers
- Or check to see in which profile(s) your required feature is included

Features		Profiles															
		G		Q		S		T		C		A		D		M	
		Service	Client	Service	Client	Service	Client	Service	Client	Service	Client	Service	Client	Service	Client	Service	Client
		General															
System Settings		M	C	M	C	M	C	M	C	M	C	M	C	M	C	M	C
User Authentication	WS-Username Token					M	M										
	Digest Authentication	M	M	M	M	O	M	M	M	M	M	M	M	M	M	M	M
User Handling		M	C	M	M	M	C	M	C	M	C	M	M	M	M		
Query Services and Capabilities		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Device Discovery		M	C	M	M	M	C	M	M	M	C	M	M	M	M	O	M
Default Access Policy				M													
Network Configuration		M	C	M	C	M	C	M	M	M	M	M	C	M	M		
Zero configuration				C	C	C	C										
Firmware Upgrade				C	C												
Backup and Restore				C	C												
TLS Configuration				C	C												
IP Address Filtering						C	C					C	C				
NTP						C	C	C	C			M	C				
Automatic IP Assignment				C	C												
Media Profile Configuration						M	C	M	C							M	C
Media Transport	RTP/UDP	M	M			M	M ¹	M	M ¹							M	
	RTP/RTSP/HTTP/TCP	M	M			M		M								M	M ¹
	RTP/RTSP/HTTPS/TCP	C	C					C	C							C	C
	RTP/RTSP/TCP/WebSocket							C	O								
	RTP/UDP Multicast					C	C	M	C								

ONVIF Conformant Products

- All conformant products are listed on the ONVIF website
- Only products listed here are guaranteed conformant

The screenshot shows the ONVIF website's 'Conformant Products' page. The header includes the ONVIF logo and navigation links: About, Join, Benefits, Profiles & Specifications, News & Events, Contact, and Members' Area. A red circle highlights the 'Conformant Products' link in the top right corner. The main content area is titled 'Conformant Products' and contains the following text: '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. If you cannot find a product here that claims to be conformant, please [click here to inform ONVIF](#). View the [Conformance Product Process and details on how to submit a conformant product here](#) and information on adhering to the ONVIF [Trademark Usage Policy](#). If you have questions concerning an Affiliate Product Listing, please [review the FAQ here](#).' Below this text is a 'Product Search' section with four input fields: 'Application Type' (set to 'Client'), 'Profile(s)' (set to 'S'), 'Manufacturer' (set to 'Select'), and 'Product Name'. A 'Search' button is located to the right of the 'Product Name' field. At the bottom of the search section is an 'Export results to CSV' button. Below the search section, it says 'Showing 50 of 540 products'.

<https://www.onvif.org/conformant-products/>

Where to Get More Information

General information on ONVIF	www.onvif.org
Profiles	www.onvif.org/profiles/
List of conformant products	www.onvif.org/conformant-products/
Intro-videos	www.youtube.com/channel/UCiZI79oCHegilFka4DAuMyQ



Thank you

For more information visit www.onvif.org

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