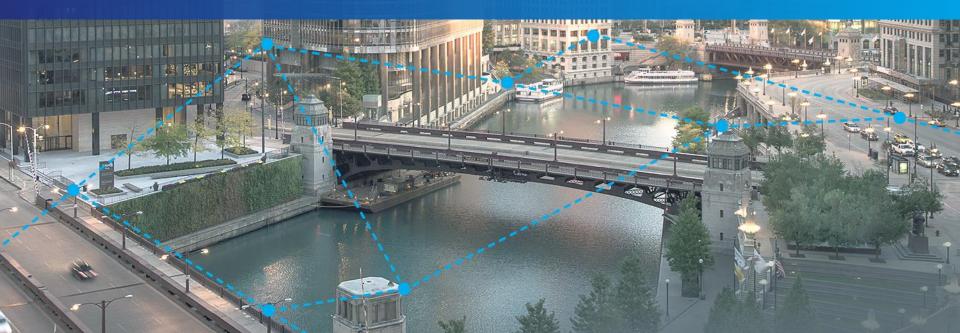


# **Understand ONVIF in 10 Minutes**



#### **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
  - Openess to all companies and organizations



# Why Use ONVIF?



In a multi-vendor environment, ONVIF ensures that products will work seamlessly together.

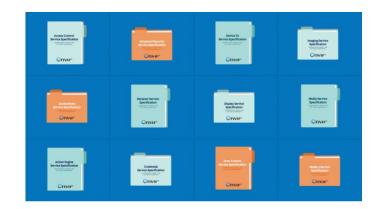
Chose between more than 14,000 products to match your exact needs and preferences, regardless of vendor.

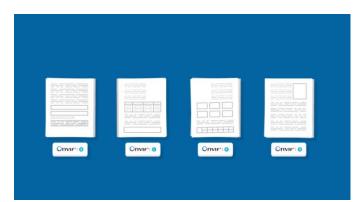
As an installer, ONVIF saves you installation time, trouble, cost, and future-proofs your installation.



# **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

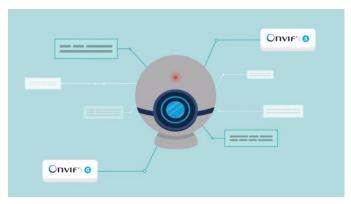






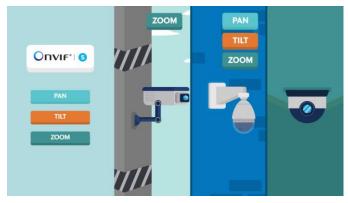
- The Profile specifies a set of features that must be supported by both client and device
- Conformant products must support at least one Profile...
- ...but can support more than one...





- 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





- A Profile A for access control configuration
  - Profile C for door control and event management
- **G** Profile G for edge storage and retrieval
  - Profile Q for quick installation
  - Profile S for basic video streaming
    - Profile T for advanced video streaming



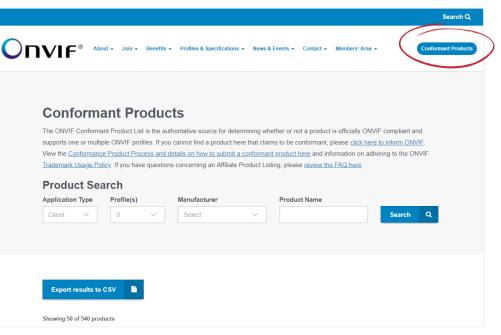
S

- 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 Refease Candidate		С		A	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
		Go	nora										
General													
System Settings		м	С	м	С	м	C	м	С	м	С	м	С
User Authentication	WS-Username Token					м	м						
	Digest Authentication	м	м	м	м	0	м	м	м	м	м	м	м
User Handling		м	С	м	м	м	с	м	С	м	С	м	м
Query Services and Capabilities		м	м	м	м	м	м	м	м	м	м	м	м
Device Discovery		м	С	м	м	м	С	м	м	м	С	м	м
Default Access Policy				м									
Network Configuration		м	С	м	С	м	с	м	м	м	м	м	С
Zero configuration				С	С	С	С						
Firmware Upgrade				С	С								
Backup and Restore				С	С								
TLS Configuration				С	С								
IP Address Filtering						С	С					С	С
NTP						с	с	с	с			м	с
Automatic IP Assignment				С	С								
Media Profile Configuration						м	с	м	с				
Media Transport	RTP/UDP					м	M1	м	М				
	RTP/RTSP/HTTP/TCP					м	M	м					
	RTP/RTSP/HTTPS/TCP							с	с				
	RTP/RTSP/TCP/WebSocket							с	0				
	RTP/UDP Multicast					с	с	м	с				

#### **ONVIF Conformant Products**

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



#### 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/UCiZI79 oCHegilFka4DAuMyQ						





# Thank you

For more information visit www.onvif.org

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