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 25,000+ 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

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

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Thank you

For more information visit www.onvif.org

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