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 nearly 10,000 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 S** for streaming video
- **Profile C** for IP-based access control
- **Profile G** for edge storage and retrieval
- **Profile Q** for quick installation
- **Profile A** for broader access control configuration
- **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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General information on ONVIF</td>
<td><a href="https://www.onvif.org">www.onvif.org</a></td>
</tr>
<tr>
<td>Profiles</td>
<td><a href="https://www.onvif.org/profiles/">www.onvif.org/profiles/</a></td>
</tr>
<tr>
<td>List of conformant products</td>
<td><a href="https://www.onvif.org/conformant-products/">www.onvif.org/conformant-products/</a></td>
</tr>
<tr>
<td>Intro-videos</td>
<td><a href="https://www.youtube.com/channel/UCiZI79oCHegilFka4DAuMyQ">www.youtube.com/channel/UCiZI79oCHegilFka4DAuMyQ</a></td>
</tr>
</tbody>
</table>
Thank you

For more information visit www.onvif.org

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