

ONVIF Compliance in Plain English

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The surveillance industry has created an open standard protocol called ONVIF. By definition it is a standard for physical security equipment, which is open to anyone and ensures interoperability regardless of manufacturer. Initially focused on video, ONVIF is being extended to other areas of physical security including Access Control. ONVIF standards vary by version, which dictate feature compatibility and system integration.

It is important to note that not all cameras manufactured are ONVIF compatible. ONVIF is a relatively new standard. Some manufacturers may have produced equipment before the ONVIF standard was introduced, therefore some cameras may not be complaint. As an example, a non-ONVIF compliant camera may only provide basic video connectivity and viewing but lack the ability for more advanced features, such as motion detection.

The ONVIF Profiles

** We recommend you verify the camera and/or NVR is profile “S” compliant.

Profile S

- IP-based video systems
- Video & audio streaming
- Pan-tilt-zoom control & relay output
- Video configuration & multicast

Profile C

- IP-based access control
- Site info & configuration
- Door access control
- Event & alarm management

Profile G (beta)

- Edge storage and retrieval
- Video & audio streaming
- Configure, request and control recording from conformant devices
- Receive audio & metadata stream

