

# Avigilon Open Security Platforms

## Our open platform promotes easy integration of trusted security solutions

Avigilon solutions are built on an open platform for easy integration with third-party software and hardware, giving you flexibility to leverage existing resources and investments. As a full member of ONVIF®, we are focused on ensuring that our products follow security standards for easy interoperability with third-party software and hardware. You can either build new, custom integrations using our feature rich software development kits (SDKs) or leverage existing integrations that are ready to use. Avigilon Control Center (ACC) video management software (VMS) and hardware ensures that you are never locked into a proprietary solution.

Click on the below topics to learn how our complete security solutions are designed to support your security needs.

<a href="#">Integration with Avigilon cameras</a>	2
<a href="#">Integration with ACC™ video management software</a>	3
<a href="#">Integration with the Avigilon Access Control Manager (ACM) system</a>	5
<a href="#">An open platform to meet your needs</a>	7

For more information, visit [avigilon.com/integrations](https://www.avigilon.com/integrations).

### How can we support you?

We have a dedicated team of experts to help you with demos, general inquiries, quotes, technical support and more. [Contact your local Regional Sales Representative to get started.](#)

## Integrations with Avigilon cameras

### **ONVIF compliant and ready to work with your existing framework.**

Most Avigilon cameras are compliant to ONVIF Profile S and utilize ONVIF communication protocols as standard to communicate with the ACC system. This means that the rich functionality offered in our line of high-definition network IP cameras can be made available to third-party VMS manufacturers through open ONVIF protocols.

As a result, you get superior image quality while having the flexibility to build your own customized system.

### **The following features are available through ONVIF Profile S:**

- Video streaming in H.264 and MJPEG
- Configuration of the video stream
- Configuration of the device IP
- Support for audio input
- Support for digital outputs

### **Other features that can be supported through ONVIF compliant extensions, but are not covered by Profile S include:**

- Motion detection
- Motion configuration
- Audio output
- Digital inputs
- Video analytics

To see our full list of ONVIF compliant cameras, visit [www.onvif.org/conformant-products/](http://www.onvif.org/conformant-products/) and type **Avigilon Corporation** in the **Manufacturer** search query.

For support on how to integrate our cameras to your existing video management system, [\*\*contact a local Regional Sales Representative.\*\*](#)



## Integrations with ACC™ video management software

### Plug-and-play solutions.

Designed with flexibility in mind, our ACC video management software seamlessly recognizes any ONVIF compliant camera. Support features from ACC software that utilize open ONVIF standards, as well as Profile S, include:

- Video edge devices (cameras and encoders)
- Video streaming in H.264, MJPEG, and MPEG4 when supported by device
- Configuration of the video stream
- Configuration of the device IP
- Support for audio input
- Support for digital outputs
- Support for digital inputs
- Motion-based recording
- Control of PTZ cameras



Our simple plug-and-play solutions will allow you to be up and running in no time. To see the list of cameras that ACC software supports, visit [avigilon.com/acc-supported-cameras](http://avigilon.com/acc-supported-cameras).

### A look at our existing integration options.

ACC software supports the integration of a wide range of security solutions to meet your application needs, including:

- Access control software
- Central stations
- License Plate Recognition (LPR) and Automated Number Plate Recognition (ANPR)
- Incident management
- Intercom solutions
- Perimeter security
- Physical Security Information Management (PSIM)
- Third-party video analytics

**Introduce your software to ours.**

Leverage Avigilon's comprehensive Software Development Kit (SDK) to seamlessly unite your existing systems with ACC software—from access control to intercom, distress, external alarms, or intruder detection—to dramatically improve building security.

That means you can incorporate our advanced video analytics capabilities to enhance the user experience of the entire Avigilon solution, or connect your point-of-sale system with our solutions to capture fraud and reduce loss.

Avigilon's SDK extends the functionality of ACC software by allowing developers to create powerful new solutions. Some of the features that are available in our .NET based SDK include:

- Streaming: Stream live or recorded video from any camera, including third-party cameras, connected to an Avigilon system
- Alarms: Access alarms or events for every device, user, and network video recorder in your network
- Events: Monitor or change the status of device events, user events, storage events, application events and alarm status changes
- Backups: Schedule, start, or abort backups and export video in multiple formats
- Control Digital Outputs: Trigger digital relay outputs through the SDK
- Analytics: Send analytics to third-party systems such as displaying analytics bounding boxes on video

To view the latest version of our ACC software integration packages and plug-ins, visit [avigilon.com/integration-downloads](https://www.avigilon.com/integration-downloads).

## Integrations with the ACM™ system

### **All-in-one solutions to support your business.**

The ACM system combines video management, biometric authentication, wireless locking, alarm panel management and visitor management into a single all-in-one access management solution. An advanced programming interface connects everything, providing a secure communications path to help keep your people, property and assets safe.

### **System integrations supported by the ACM system include:**

- ACC video management software
- Third-party VMS software
- Identity management
- Visitor management
- Biometric management
- Wireless lock hardware
- Intrusion systems

### **Avigilon key to open access control.**

The ACM system integrates with open-field hardware from Mercury Security and HID Global for businesses that need to move from proprietary and, in some situations, unsupported hardware to a supported access control system. Replace your existing system with a supported platform that preserves a large portion of the existing system investment. The ACM system provides enterprise-class capability without the enterprise overhead.



**Create new solutions with our methods.**

- REST API: For custom applications or the creation of new integrations, the capabilities of the ACM system are accessible to programmers via an easy-to-use REST API, which enables activities such as identity and token management, event management, door control, inputs and outputs, global actions, schedules, and more.
- Collaborations provides the ability to exchange data between the ACC appliance application and a large number of other databases. The ACM system provides an easy-to-use interface for doing large-scale one-time or recurring database imports for identity management, real-time monitoring of access control events in third-party systems, and much more.

**Pull identity information from the following databases:**

- LDAP
- Active Directory
- SQL Server
- Oracle RDBMS
- Comma Separated Value (CSV)

For more information on ACM integrations, visit [avigilon.com/acm-integrations](https://avigilon.com/acm-integrations).

## An open platform to meet your needs

We currently work with a number of technology partners on the following categories to ensure you have the best experience:

- IP video devices
- Video management software
- Video wall solutions
- Access control software
- Access control devices
- Infrastructure management solutions
- Incident management solutions
- Physical Security Information Management (PSIM)
- Building management solutions
- Central station monitoring and control solutions
- Sensor and detector devices
- Point-of-sale
- Analytics
- Intercom solutions



**For more information, visit the below links.**

Cameras and encoders supported by ACC software: [avigilon.com/acc-supported-cameras](http://avigilon.com/acc-supported-cameras)

ACC software integrations: [avigilon.com/integration-downloads](http://avigilon.com/integration-downloads)

For additional assistance, [contact a local Regional Sales Representative.](#)