

AVIGILON™
TRUSTED SECURITY SOLUTIONS™



Enterprise Access Control System

Avigilon Access Control Manager (ACM)™ Systems

The Access Control Manager (ACM) system is an IT-friendly Physical Access Control System (PACS) from Avigilon for enterprise-class installations. It's a complete system that is designed to keep your focus on securing your people, property and assets, and maximizing your time by helping you respond immediately to alerts wherever you are. The ACM system is a browser-based solution that can integrate with existing IT/HR systems, minimizing the need for duplicate data entry. It comes with a full set of standard features that not only help to maximize your time, but will reliably safeguard your information.

Five reasons to deploy an ACM enterprise system

1. Manage enterprise access and events on your terms and with the devices you use everyday
2. Capitalize on company investment into existing hardware and software
3. Integrate enterprise HR and Identity and Access Management (IAM) information to connect physical security systems together
4. Map enterprise roles to physical access to enforce policy restrictions
5. Connect critical alarm events by combining the ACM system with Avigilon Control Center (ACC)™ software to display visual verifications

Secure, Linux operating system

The ACM system helps companies stay ahead of network security issues by deploying an access system that provides exceptional protection at every turn. Using an open-source Linux platform provides an extra layer of security against network vulnerabilities. This can decrease system maintenance and eliminate the cost of operating system licenses and upgrade fees.

Physical and logical security convergence

The ACM system approaches identity management in a unique way. Our system synchronizes core security information across peer-to-peer networks in real time, ensuring all operators see the most up-to-date information. This core technology, along with automatic redundant failover solutions, increases system uptime and protects valuable data, allowing IT departments more time to focus on other operational tasks.



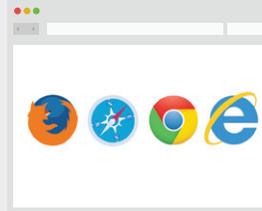
Performance-Driven Features

- 100% browser-based PACS
- Access, video and intrusion event and alarm management
- Open architecture (Open LDAP and Open-field hardware)
- Hot standby-auto failover (System failover redundancy)
- Global anti-passback
- Global linkages and actions
- Global synchronization of access information
- Role-based authorizations and policy enforcement
- Collaborations (Data exchange between the ACM system and other databases)
- Graphical maps and floor plans
- Digital video integration
- Wireless lock integration
- Intrusion panel integration
- Mustering (emergency tracking and reporting)

All the PACS, Without the Pain

Accessible from anywhere

Our 100% browser-based ACM solution is accessible from any location (via the internet) using any device with a browser, anytime, and allows the system to be managed by multiple operators simultaneously. Whether using ACM Enterprise or Virtual system, all changes are automatically synchronized across the entire access system, displaying only the most up-to-date information.



Powerful features that are included

The ACM system includes powerful features that are typically only offered as licensable options by other manufacturers.

- 50 concurrent client connections
- Mustering (occupancy/emergency tracker and locator)
- Video integration to ACC software

Integrations

Avigilon provides all-in-one solutions to support your most critical business activities. By combining video management, wireless locking and visitor management into a powerful access management solution, security teams can assess and respond with optimum situational awareness, keeping your facility running efficiently and with a higher level of security.



Event correlation and alarm monitoring

Connecting access events with ACC software and other compatible 3rd party video management systems so security teams can visually act and respond to critical alarm events. This provides a visual verification of unauthorized activities in and around your facility.

Emergency response and occupancy

The ACM system helps to protect your people, property and assets with a built-in emergency tracker and locator system called “mustering”. Mustering dynamically tracks and records personnel location by area using an interactive graphical map and dashboard view. Whether you’re tracking occupancy levels or assembling personnel in an emergency, the ACM system provides you with a real-time view of your facility, keeping personnel safe.



Advanced reporting — use all available information

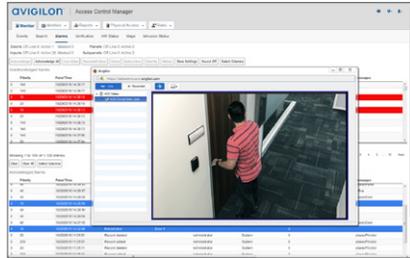
The ACM system saves you valuable time when it comes to audit trail searching and reporting. Using an enhanced reporting engine, it provides the operator with the ability to search on user-defined fields, so security teams can assess and act on critical user-created data.

Powerful Enterprise Solution

A successful enterprise access control solution should allow you to focus on securing your people, property and assets without consuming your time with system management. Every aspect of the ACM system is designed to keep you focused externally, freeing up more operational time by providing the information you need to improve safety and resolve incidents. The ACM system interface keeps most system operations at your fingertips. Its user-friendly navigation allows you to manage and effectively report and act on critical security events.

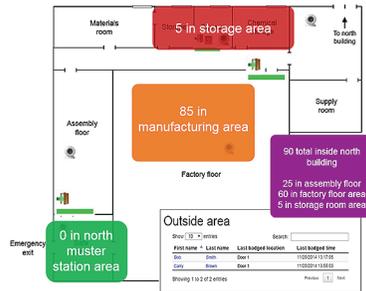
Alarm management and video interface

Visual context for alarm events



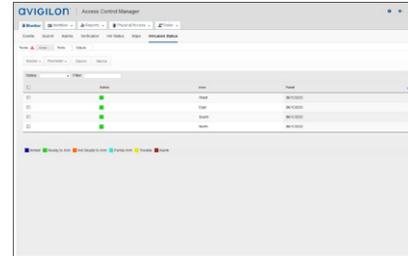
Personnel locator and occupancy tracker

Enhance the safety of key personnel



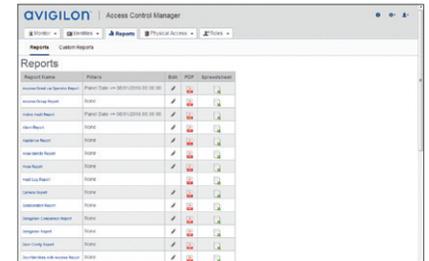
Intrusion event monitoring and control

Correlate alarms with system actions



Reporting

Track and record relevant activities



Avigilon Access Control Manager (ACM) Systems



ACM Professional 16 – 32 reader licenses

- Installs in tight spaces with a small footprint
- Eliminate the cost and complexity of legacy security systems
- Can be set up in minutes with an intuitive and easy-to-use interface
- Simplify security with a cost-effective all-in-one desktop machine



ACM Enterprise 16 – 2,048 reader licenses

- Upgrade to a highly resilient, scalable software platform
- Enable simple integration with IT
- Increase uptime with a redundant appliance solution
- Able to synchronize critical data across all network appliances



ACM Virtual 16 – 2,048 reader licenses

- Eliminate the cost of standalone servers and software
- Increase the efficiency and use of computer room resources
- Highly scalable design with decreased deployment time
- Helps to reduce both capital and operational expenditures

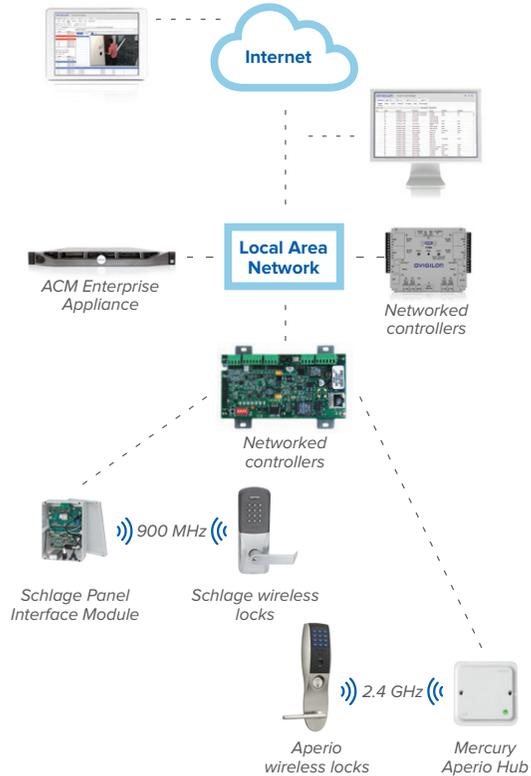
Wireless Lock Integration from Avigilon



The Avigilon Access Control Manager (ACM) system introduces wireless lock integration that takes one of the most simplified access platforms in the industry to a new realm of all-in-one solutions that scale to meet the needs of most global applications. Derived from a 100 percent browser-based Linux platform that can be managed from virtually any location and device with a browser and internet connection, the ACM system sets the stage by providing the benefits of a wired installation – without the complexity and cost that traditional wired locks present.

With traditional systems that deploy wired locks, all the components, such as the card reader, the request-to-exit and enter sensors, the door position switch, and the lock are installed and wired separately. This increases installation time and overall cost of the project.

Wireless lock integration is an excellent solution for educational facilities, healthcare offices and hospitals, commercial businesses, or any application that wants to combine all of the components typically found around the door into a simplified all-in-one system that saves you time.



KEY FEATURES

BENEFITS

Reduced hardware costs

Reduce the cost and complexity of added hardware by connecting the controller directly to the panel interface module or communications hub for a secure wireless path to the lock.

Modular design

Flexibility to customize the lock to meet the needs of the application now, and purpose-built to allow for customizing the lock rather than replacing it in the future, with little to no operational disruption.

Increased security

Turn any keyed door or sensitive area into a monitored access door to improve security in and around facilities.

Flexible lock configurations

Ability to customize the reader type, chassis type, locking functions, power options, lever styles, finishes and more according to the needs of the application.

No integration license fee

Ability to add wireless locks to new and existing projects without additional licensing fees.

Wireless Lock Solutions



| FEATURE | ALLEGION | ASSA ABLOY |
|---------------------------|--|--|
| Lock support | 16 Schlage AD-400 locks per PIM | 8 Aperio locks per hub |
| Number of supported locks | Standard Mercury licensing applies to the number of doors that can be connected to the ACM system (e.g., a 256-door Enterprise license supports 256 wireless locks). | Standard Mercury licensing applies to the number of doors that can be connected to the ACM system (e.g., a 256-door Enterprise license supports 256 wireless locks). |
| Frequency | 900 MHz – 902-928 MHz | 2.4 GHz – IEEE 802.15.4 (16 channels, 11–26) |
| Certifications/approvals | IC (Industry Canada), FCC, NEMA | CE (European), C-Tick (Australia-New Zealand), IC, FCC, ETL |
| Encryption | AES 128-bit | AES 128-bit |
| Compatible hardware | Mercury | Mercury |
| System interface | RS-485 | RS-485 |
| PoE compliant | IEEE 802.3af (PIM400-1501-LC) | No |

Allegion solution

Schlage wireless locks communicate over a secured 900 MHz band to a panel interface module that acts as the gateway between the Mercury hardware and the wireless lock. Each Panel Interface Module (PIM) allows a wireless connection of up to 16 AD-400 wireless locks. This solution uses two variants of Mercury hardware controllers that connect over RS-485 to the Schlage PIM. To make installation of this solution even easier, the Schlage PIM400-1501-LC is designed to house the Mercury single-door Power over Ethernet controller. This provides an external PoE-ready connection that can be used to power both the PIM module and Mercury controller to make configuration of the system easy.

Key features

- Connection to AC-MER-CONT-1DR and AC-MER-CONT-64DR Mercury controllers
- AES 128-bit encrypted spread spectrum 902–928 MHz transmission
- Automatic linking to remote wireless access points with 10 channel frequencies
- Five visual indicators to quickly pinpoint and display status
- Support for 125 kHz proximity and 13.56 MHz smart cards
- AD-400 series locks receive power from standard alkaline batteries

ASSA ABLOY solution

Aperio wireless locks communicate over a secured 2.4 GHz band to an Aperio communications hub. Each hub allows a wireless connection of up to eight Aperio wireless locks. This solution uses three variants of Mercury hardware controllers that connect over RS-485 to the Aperio hub.

Key features

- Connection to AC-MER-CONT-1DR, AC-MER-CONT-2DR and AC-MER-CONT-64DR Mercury controllers
- AES 128-bit IEEE 802.15.4 encrypted radio communication
- Integrated antenna with the option to mount an external antenna
- Visual status indicator
- Support for HID 125 kHz proximity and 13.56 MHz iClass contactless credentials
- Aperio series locks receive power from alkaline or lithium batteries



Allegion Ordering Information



| | |
|-----------------------------------|--|
| AC-ALL-SCH-PIM400-485-RSI* | 900 MHz PIM for use with the Mercury EP2500 intelligent controller |
| AC-ALL-SCH-PIM400-1501-LC* | 900 MHz PIM for use with the Mercury EP1501 PoE intelligent controller |
| AC-ALL-SCH-HHD-KIT-USB | Handheld device kit to program the Schlage locks and PIM devices |
| AD-400 Series locks | Custom lock options available in AD-400 product data sheet |

*Does not include Mercury hardware from Avigilon



Schlage PIM400-485



Schlage PIM400-1501



HHD
Programming Kit



AD-400 Series locks
from Avigilon



ASSA ABLOY Ordering Information



| | |
|------------------------------------|---|
| AC-MER-AH30RN1-RC* | Aperio RS485 hub 1:8 with RC enablement SW - North America |
| AC-AA-SAR-AP500* | Aperio RS485 hub 1:8 with RC enablement - Europe, the Middle East and Africa (EMEA) |
| AC-MER-APD-10-USB | Aperio USB radio dongle - North America |
| AC-AA-SAR-AP500ZB-RD-USB-00 | Aperio USB radio dongle - Europe, the Middle East and Africa (EMEA) |
| Aperio Series locks | Custom lock options available |

*Does not include Mercury hardware from Avigilon



Aperio RS485 hub



Aperio USB radio dongle



Aperio Series locks from Avigilon

ASSA ABLOY

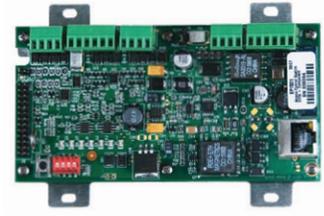
The global leader in door opening solutions



Mercury Ordering Information



| | |
|-------------------------|--|
| AC-MER-CONT-1DR | Single-door PoE networked controller for use with Allegion and ASSA ABLOY Aperio |
| AC-MER-CONT-2DR | Two-door networked controller for use with only ASSA ABLOY Aperio |
| AC-MER-CONT-64DR | Intelligent 64-door networked controller for use with Allegion and ASSA ABLOY Aperio |



*Single-door PoE controller
(AC-MER-CONT-1DR)*



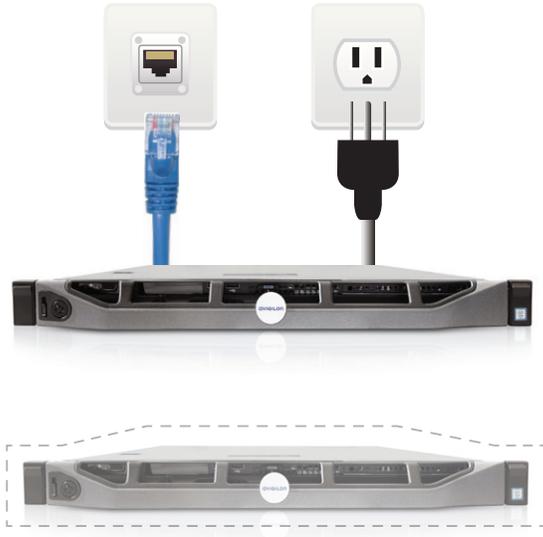
*Two-door controller
(AC-MER-CONT-2DR)*



*64-door controller
(AC-MER-CONT-64DR)*



Plug-and-Play Protection



Access Control Manager (ACM) Enterprise Appliance

Avigilon ACM Enterprise is a browser-based, access control network appliance that enables enterprises of all sizes to secure their facilities, people and assets. The ACM Enterprise system integrates easily with IT and logical security systems to deliver a new standard in performance, scalability and efficiency that can only be achieved through convergence.

Access Control Manager (ACM) Virtual Appliance

Avigilon ACM Virtual is a physical access control system (PACS) that is Certified VMware Ready for deployment on a virtual server. The ACM Virtual system is purpose-built for organizations that have migrated their IT infrastructure to a secure, private cloud environment. This allows IT professionals to capitalize on existing investments in hardware virtualization while increasing operational efficiencies to extend security budgets farther than ever before.

Open-Field Hardware

Avigilon partners with trusted leaders in the security industry to deliver an all-in-one access management solution to support your business needs.

At the heart of all Avigilon access systems is a power supply engineered specifically for the hardware it's intended to power. Our open-field hardware from Mercury Security and HID Global is monitored and powered with equipment from LifeSafety Power, a leader in smarter power solutions, making the ACM system a safe choice for a wide variety of environments.

Save time by combining all the components typically found around the door with a wireless locking solution from Avigilon. Allegion and ASSA ABLOY wireless offerings can be used in new and existing installations, especially where environmental challenges may exist. In situations where brick or concrete barriers make running cable virtually impossible, or when you need to secure a sensitive out-of-reach area, we offer solutions that turn these types of challenges into flexible, turnkey opportunities.

Engineered Solutions for Enterprise Class Businesses

Avigilon solutions are engineered from the ground up with exceptional IT standards that easily integrate with an organization's existing physical or virtual IT environment. Avigilon is committed to providing the ease-of-use demanded by facility managers and the flexibility required by IT departments.

Supported Access Control Solutions

Mercury Security
HID™ Global
ASSA ABLOY
Allegion
Farpointe Data®
EasyLobby® by HID
LifeSafety Power

Supported IT Platforms

Linux
OpenLDAP
Certified VMware™ Ready
Firefox
Google Chrome
Apple Safari
Internet Explorer
Microsoft EDGE

Supported 3rd Party Databases

LDAP
Active Directory
SQL Server
Oracle RDBMS
Comma Separated Value (CSV)
XML (Event push)

Supported Video Integration Solutions

Avigilon Control Center
Milestone Systems
Salient Systems
Exacq Technologies by Tyco Security
Dedicated Micros



Avigilon Value



Commitment and Quality

- Over 11 years in the business
- Quality products, manufacturing and operations
- Continual investment in new technologies



Fast time to value

- Easy installation
- Complimentary 24/7 support



Low TCO

- No recurring software licensing fees
- No maintenance fees
- Complimentary training



Avigilon enterprise-class access control solutions provide a 100% browser-based Linux platform that delivers exceptional value, allowing customers to achieve full capability at a lower cost of ownership.

To learn more, visit avigilon.com/acm

