VAX Access Control System Overview

Order VAX software pre-installed on a Vicon certified server or install it on a standalone PC. VAX/Valerus VMS can share a server if connecting to 10 doors or less.

Choose from a variety of controller options for doors and elevators. Unique, over-the-door controllers make installation easier and more cost-effective.

Manage unlimited sites across multiple time zones using VAX multiscreens.

VAX supports leading card/reader systems. Keep existing hardware in place when switching to a new VAX solution.

User-friendly, browser-based interface with responsive web design means an optimized user experience from any device.
VAX – Vicon’s Access Control System

*Total Solution for Building System Integration*

Vicon’s VAX access control technology is the cutting-edge physical security solution to secure, control and audit assets

- Thin client browser-based software and PoE ready panels
- Vast array of controllers, readers and cards for complete solution
- Full video integration interface with Valerus and ViconNet VMS
- Flexible mounting choices, such as our unique over-the-door option
- Quickly scale up with variety of expander options
- Embedded “Request to Exit” motion sensor
VAX Controller – A Closer Look

- Reader Door 1
- Reader Door 2
- Power Over Ethernet Port
- LCD aiding in diagnostics and configuration
- 12VDC Lock Door1 Output
- 12VDC Lock Door2 Output
- 12VDC output
- Solid State Output Fully Programmable
- Door Contact & Rex Input Door1
- Door Contact & Rex Input Door2
- Keyboard Control For Full Configuration
- External Status LED’s
- Optional Motion Sensor
- 12VDC Lock Door2 Output
Above the Door Motion Sensor

**Motion Sensor**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>PIR</td>
</tr>
<tr>
<td>Detection Range</td>
<td>5 m</td>
</tr>
<tr>
<td>Detection Angle</td>
<td>H: 94°, V: 82°</td>
</tr>
<tr>
<td>Detection Zone</td>
<td>64 zones</td>
</tr>
</tbody>
</table>

![Diagram of Above the Door Motion Sensor](image)
VAX One Door Controller Layout

Alternatively can be installed on a Windows based PC.

Controller
A  POE-ODM

Outputs
B  Electric Strike
C  Auto Door Opener
D  Extra Loud Buzzer*

Inputs
G  Handicap Open
H  Door Contact
I  Emergency Alarm
J  Doorbell
R1  Inside Reader
R2  Outside Reader

*Optional Internal Extra Loud Buzzer
VAX Two Door Controller Layout

VAX Application Server

Alternatively can be installed on a Windows based PC

LAN/WAN

PoE
Traditional Home Run Install Available

- Can fit up to 4 controllers in a traditional can
- Control 8 doors from our traditional UL rated enclosure
- I/O boards fit as well
- Perfect for retro fits
- Smaller footprint than traditional controllers
- Traditional non-PoE using external power supply and battery backup will be available in April 2018
VAX Controller with Aperio Module

Door Controller Layout With RS485 Module For Aperio

- Power Over Ethernet Port
- LCD aids in diagnostics and configuration
- Aperio RS485 Module (Field Replaceable)
- Keyboard Control for Full Configuration
- Optional Motion Sensor
- External Status LEDs

LCD aids in diagnostics and configuration.
ASSA ABLOY APERIO INTEGRATION

Control up to 8 Aperio devices from one Aperio Hub using only one single Vicon Aperio Controller.

- VAX Application Server
  - Alternatively can be installed on a Windows based PC
- LAN/WAN
- Vicon Aperio Controller
- Cat5 (RS485 + Power)
- PoE
- RS485 Aperio

Institutional Lock
- Cabinet Lock
- eCylinder
- Aluminum Glass
- Commercial Lock
VAX Software: Easy to Use & Robust

- SQL Database
- HTML5 enabled web responsive design
- Advanced SSL encryption
- 50,000 event storage per controller
- Multiple credentials per user
- Multiple Access Privilege groups per user
Unlimited Scalability

- Unlimited Doors
- Unlimited Elevator Floors
- Unlimited Input/Output Points
- Unlimited Users
- Unlimited Door Time Zones
- Unlimited Access Privilege Groups
- Unlimited System Administrators
- Unlimited User Roles
- Manage unlimited sites across multiple time zones
- Comprehensive partitioning of system

VAX is Unlimited!

And Versatile!
Video System Integration

• Real time or historical video right from the web browser

• Integrate with **multiple** Vicon camera systems across the Internet

• Associate cameras with Doors or Elevators

• PTZ camera Presets allow one camera to monitor multiple doors

• Historical access reports can pull up historical camera view of the event

• Cameras can be viewed on different screens for multi-monitor setups
Total Security & Complete Flexibility
Photo Badging Software

- CardPresso integration allows for customer photo badge printing and management
- Requires a license dongle connected to USB
- State-of-the-art configuration allows a user to upgrade a single-sided card to a dual
- Optional Mag stripe and Smart Card Encoder
Visitor Management Integration

- Ability to give temporary access to doors and elevators
- EasyLobby HID integration opens up many options
- We can now offer a visitor management solution
- Sold through authorized dealers

Visitor management system designed for the needs of any size organization.
Introducing VAX 2.9 - Delivering New Features that Simplify the User Experience While Enhancing System Performance

- Maps
- Time Tracking Report
- Unmanaged Doors
- Action Engine
Maps

Import image files (PNG, GIF, JPEG, or bitmap) for maps
Maps

- No limit to the number of maps that can be used
- Create maps on multiple tabs and easily select between maps
Maps

Quickly navigate between maps by assigning “Adjacent Maps”

Use up, down, left, and right arrows on a map to navigate between adjacent maps.
Maps

Easily select VAX objects (e.g. doors, elevators, inputs, outputs, areas, and cameras) in Maps Edit mode and populate icons on maps.
Maps

Clicking an icon for a door, elevator, input, or output allows you to see the real-time state (e.g. Card Only access) of that object, associated video, and gives you Override control.
Maps

Selecting a camera icon in Maps allows you to see both live video as well as select different playback times.
Maps

Clicking an Areas icon (shaded region you define) allows you to see the list of people who have badged into the pre-defined area. This list updates automatically whenever someone badges in or out of the area.
Time Tracking Report

The User Time Tracking Report allows you to determine the total hours that individuals were within an area (defined by In Reader/Out Reader).
Unmanaged Doors

For those cases when you just need to monitor the state of a door, you are now able to create unmanaged doors using inputs on our VAX-IO-EXP8PCB panel.

Unmanaged doors will appear alongside managed doors in all status screens, reports and in the new interactive maps feature.

Unmanaged doors can be associated with cameras just like traditional managed doors.
**Action Engine**

**High performance** engine allows simultaneous action executions and scalability limited only by the hardware it’s running on.

**Intuitive, easy to use** action plan editor allows you to create complex action plans in minutes.

Mix and match **over 40 customizable actions** to create complex branching action plans to meet your business needs. Including HTTP requests, door overrides, SMS messaging and emails actions.

Highly flexible action plans allow for **variables and arithmetic operations** with little programming or scripting knowledge required.

**Flexible trigger engine** allows you to trigger action plans from door, input, output state changes, or trigger action plans upon scheduled times.
Action Control Engine - Customizable Examples

**Turn on Light If There Is Someone in the Warehouse**
Description:
A busy warehouse wants to let crane and forklift operators know that there are persons inside the warehouse. There is a light visible from anywhere in the warehouse. All entrances and exits have back to back readers. By using ACE with anti-pass back we are able to turn the light off and on based on the amount of persons inside the warehouse.

**Triple Swipe on Duress Code Lockdown**
Description:
School wanted building wide lockdown. Normally this would require hardwired connections between all control panels, but after a risk analysis they decided to use ACE. ACE is able to watch for triple swipe or duress codes at any reader and perform the lockdown.

**Email Camera Snapshots on Access Granted/Access Denied**
Description:
A property manager in New York wanted to further leverage the Digital Watchdog VMS integration by using the Digital Watchdog API with ACE to receive a snapshot of people as they are granted access or denied access to a reader.