



VAX Access Control System, V2.9



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.



(Available in white)

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

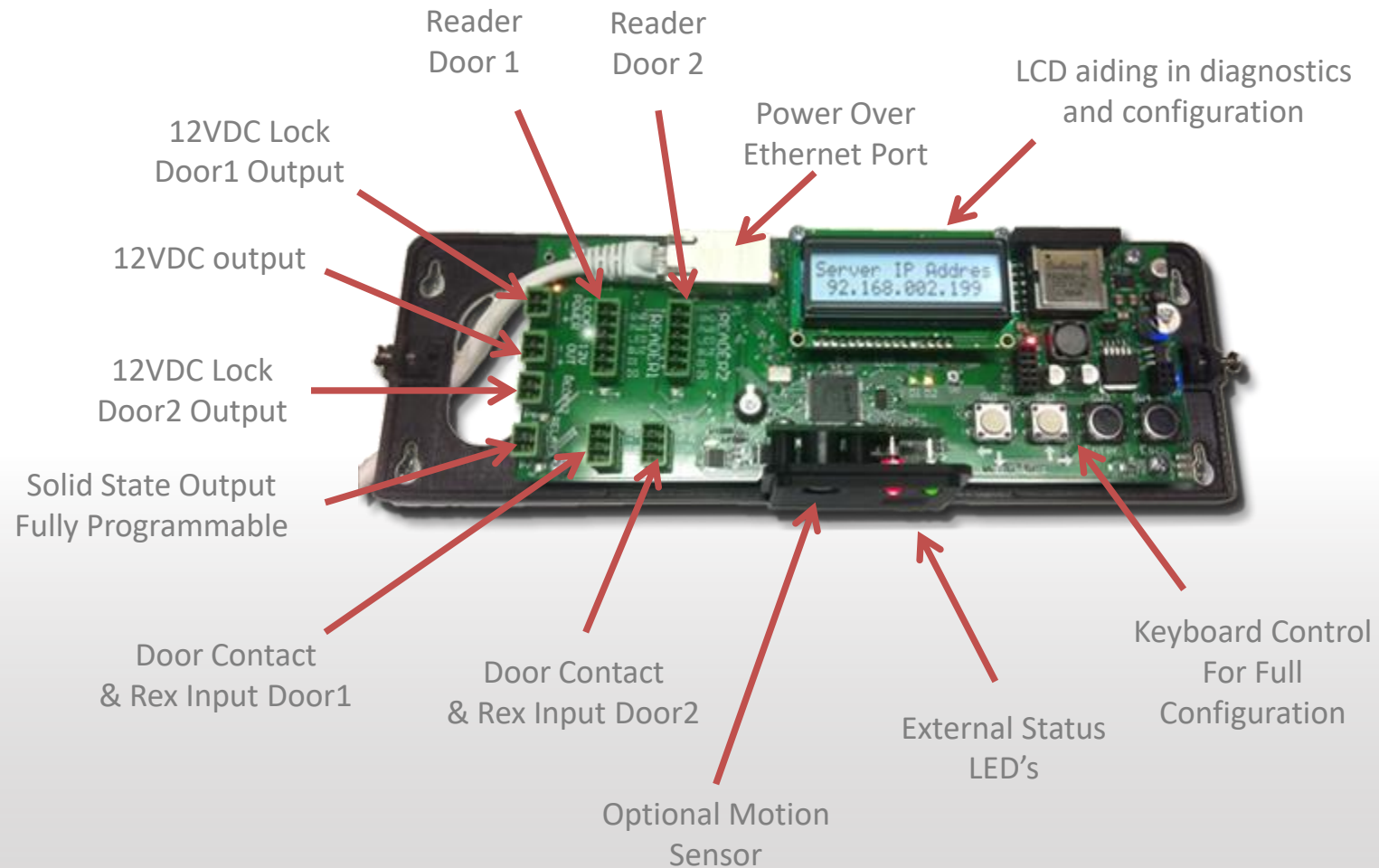


Vicon’s VAX access control technology is the cutting-edge physical security solution to secure, control and audit assets

- 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

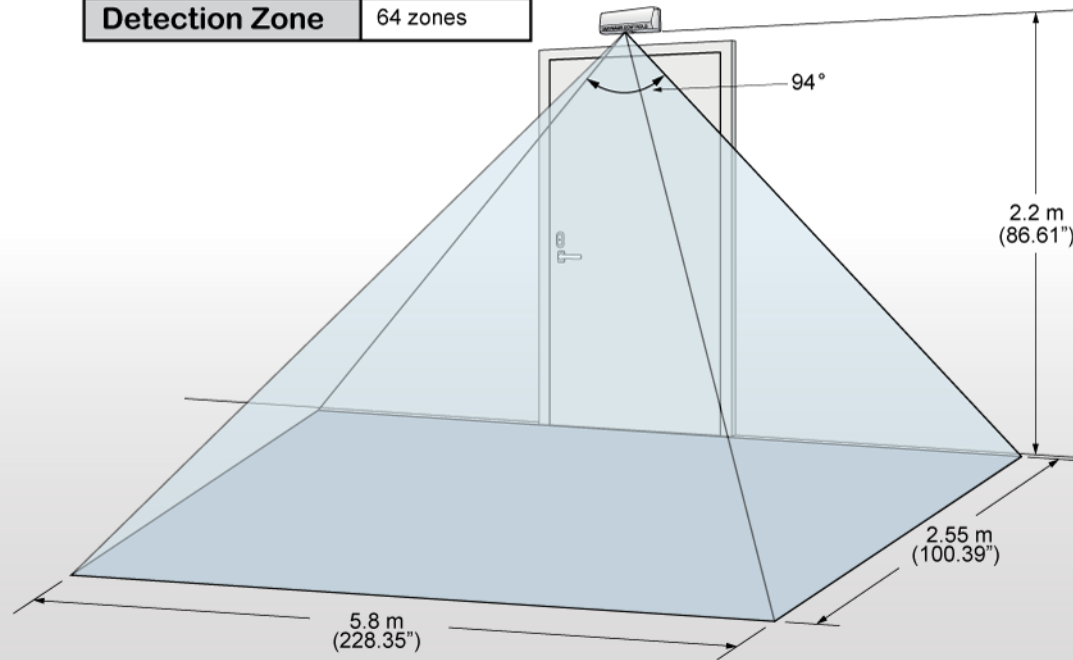


Above the Door Motion Sensor

Motion Sensor

Specification

| | |
|-----------------|----------------|
| Sensor Type | PIR |
| Detection Range | 5 m |
| Detection Angle | H: 94°, V: 82° |
| Detection Zone | 64 zones |

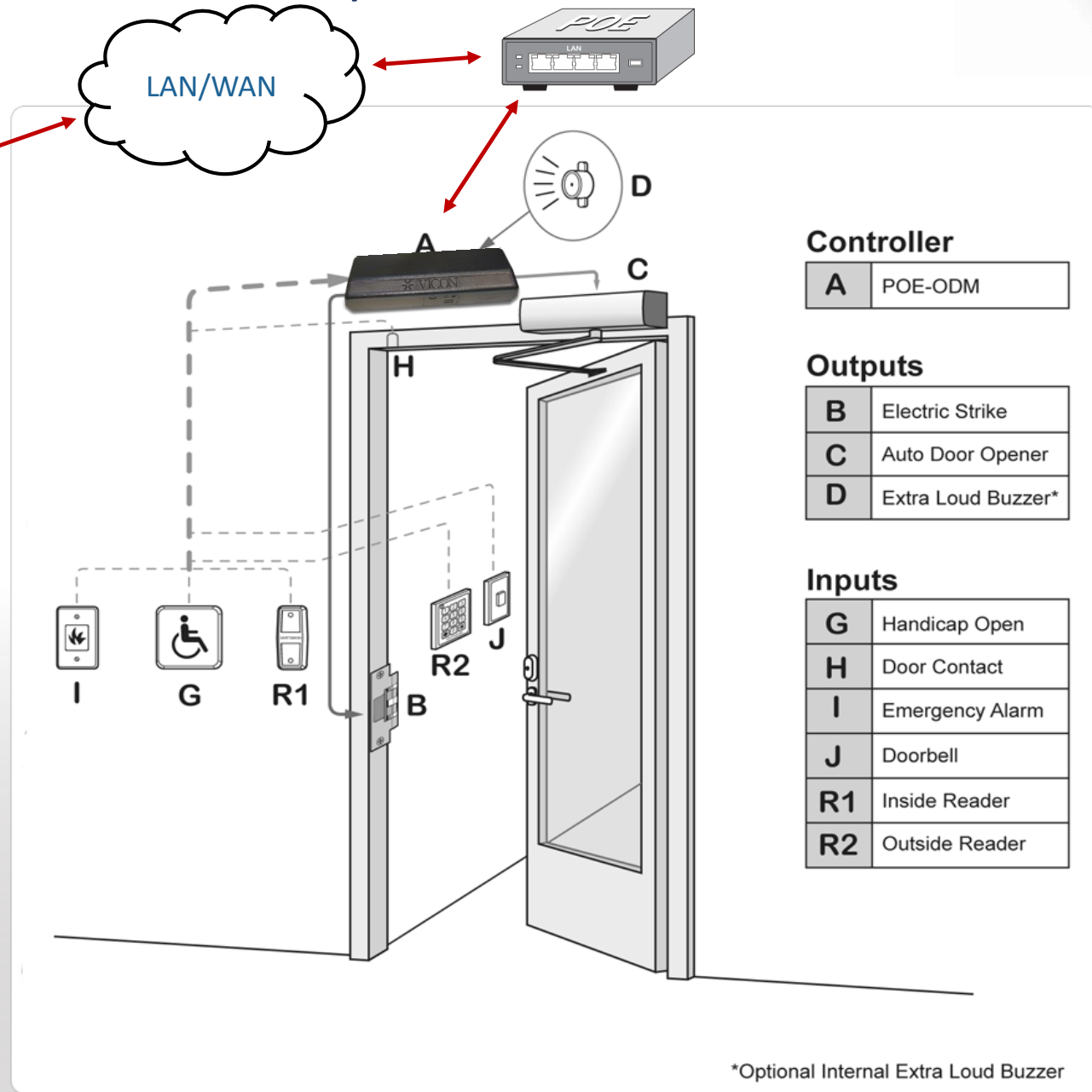


VAX One Door Controller Layout

VAX Application Server



Alternatively can be installed on a Windows based PC



Controller

| | |
|---|---------|
| A | POE-ODM |
|---|---------|

Outputs

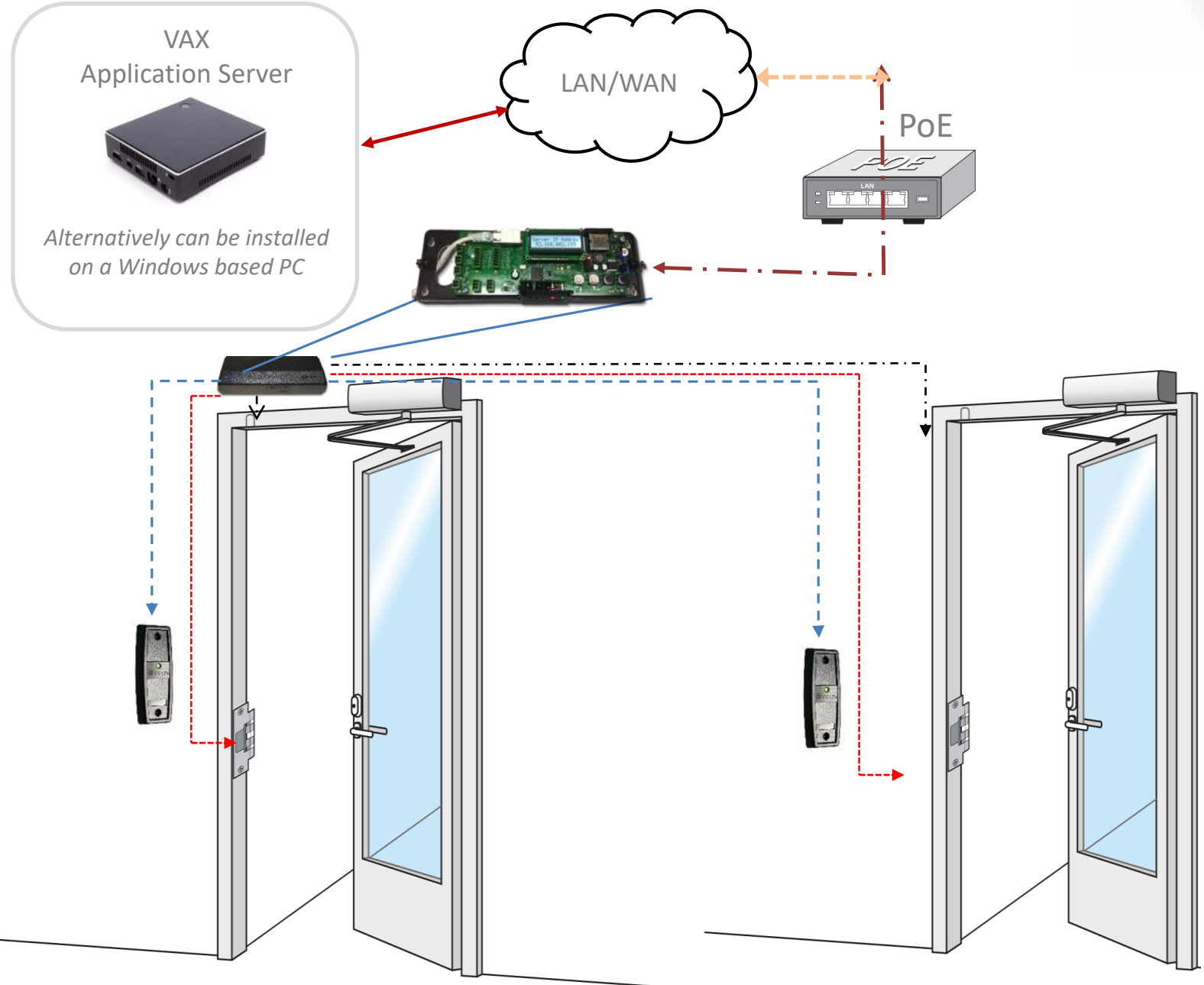
| | |
|---|--------------------|
| B | Electric Strike |
| C | Auto Door Opener |
| D | Extra Loud Buzzer* |

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



Traditional Home Run Install Available

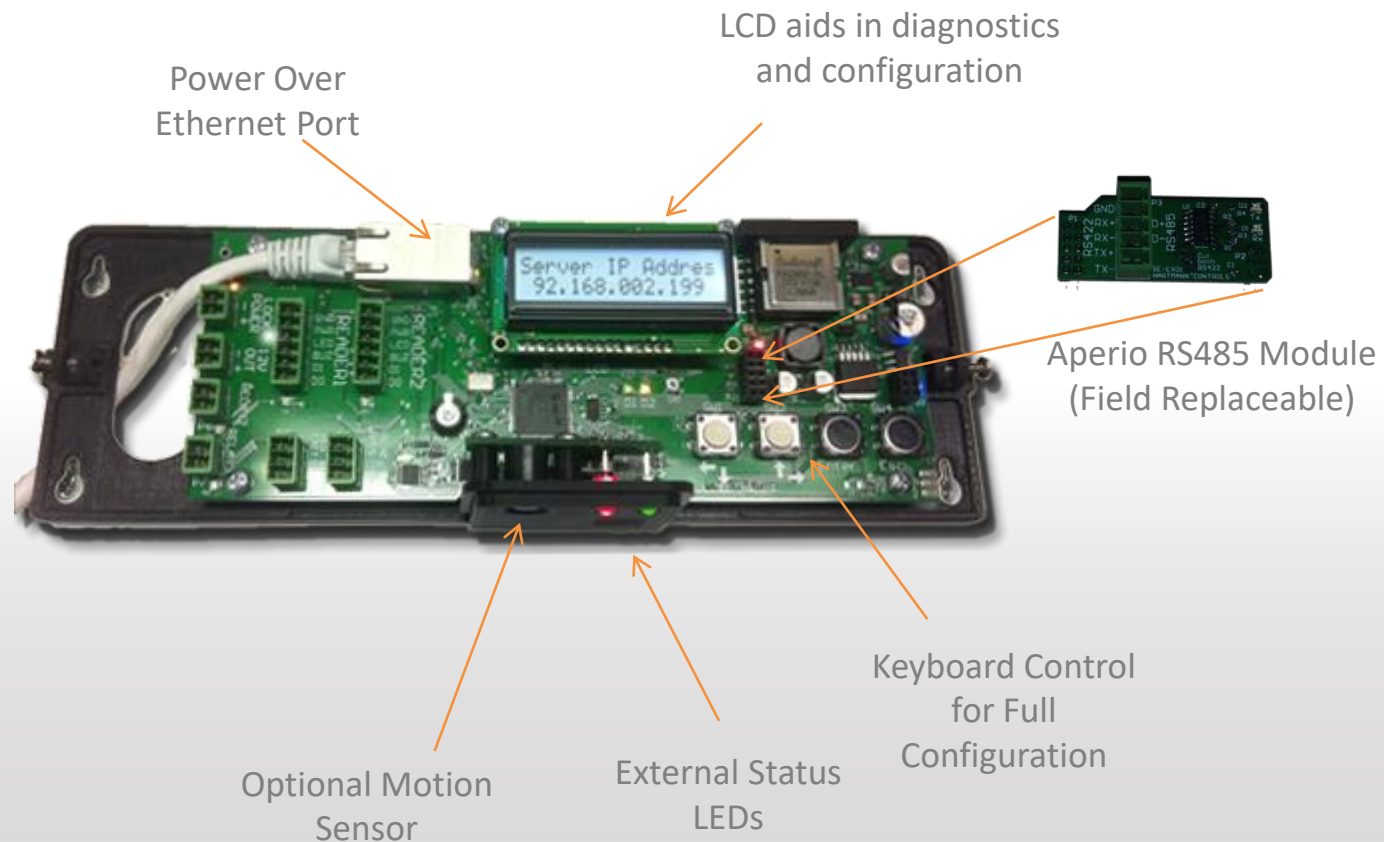


- Can fit up to 4 controllers in a traditional can
- Control 8 doors from our traditional UL rated enclosure
- I/O boards fit as well
- Perfect for retro fits
- Smaller footprint than traditional controllers
- Traditional non-PoE using external power supply and battery backup will be available in April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

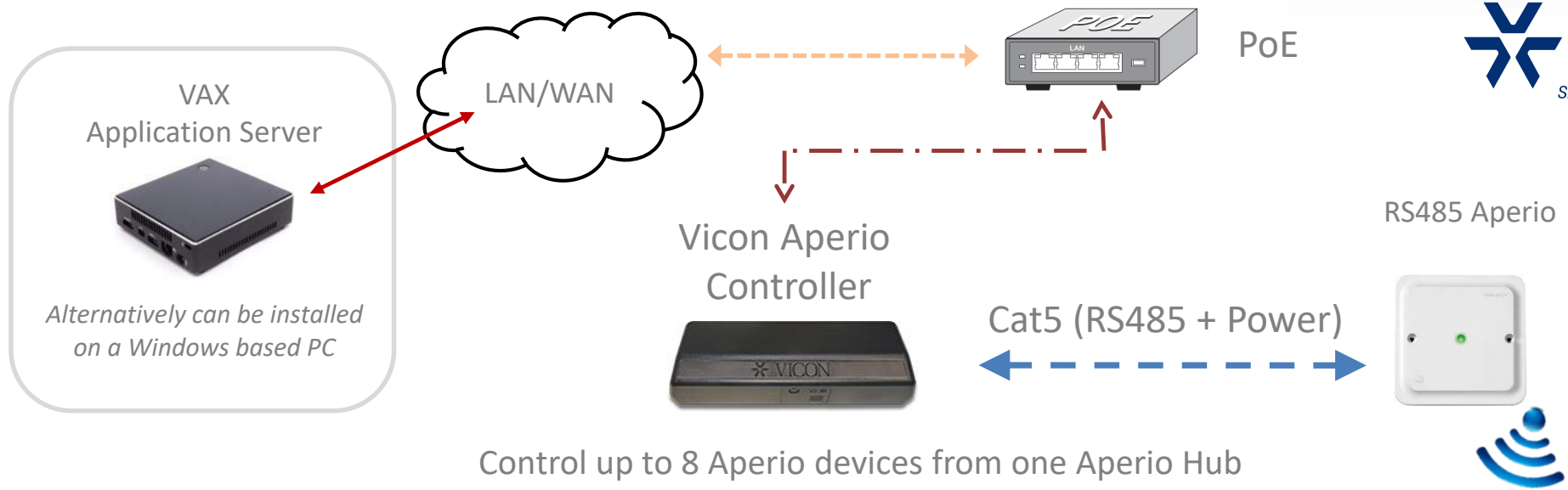


VAX Controller with Aperio Module

Door Controller Layout With RS485 Module For Aperio



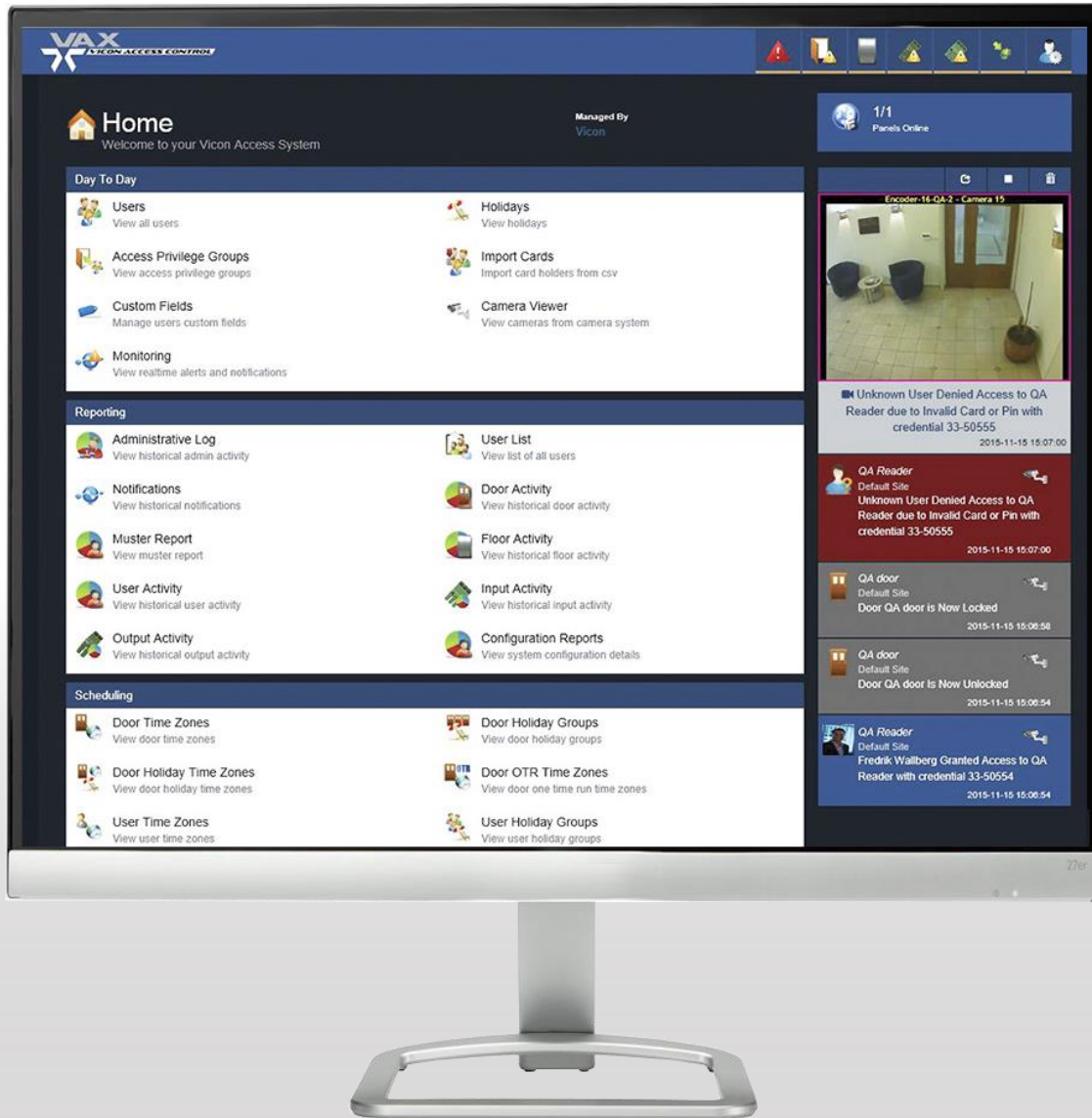
ASSA ABLOY APERIO INTEGRATION



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



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 zone
- 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



The screenshot displays the web interface for the Hartmann Controls Access System. At the top, it says "Home" and "Welcome to your Hartmann Controls Access System". Below this is a "Day To Day" section with icons for "Users", "Access Privilege Groups", "Custom Fields", "Holidays", "Import Cards", and "Camera Viewer". The "Reporting" section includes "Administrative Log", "Notifications", "Floor Activity", "Alert Monitoring", "User List", "Door Activity", and "User Activity". The "Scheduling" section lists "Floor Time Zones", "User Time Zones", "Door Holiday Time Zones", "Door Holiday Groups", "Door Time Zones", "Floor Holiday Time Zones", and "User Holiday Time Zones". In the bottom right corner, there is a live video feed of a door with a red bounding box around the door handle and yellow arrows indicating movement. The video feed has a yellow border and a red title bar with the text "VICON 192.168.2.166 - SN653VD007D8121F6A".

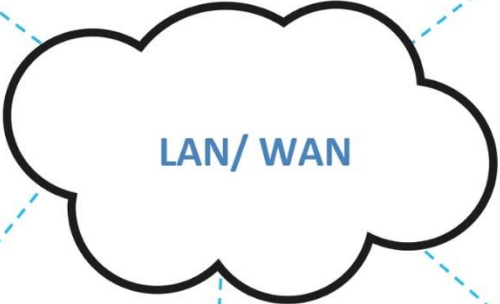
Total Security & Complete Flexibility



VAX Application Server

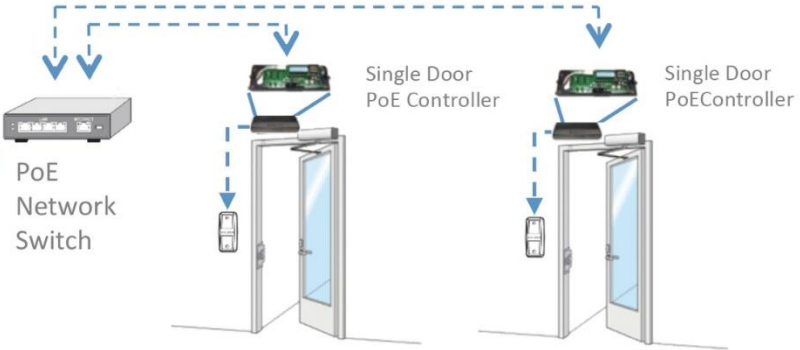


VMS



Web-Based Administration
Personal Computer • Tablet • Mobile Phone

Site A - Controllers connected to network



Site B - Unlimited number of controllers connected to network

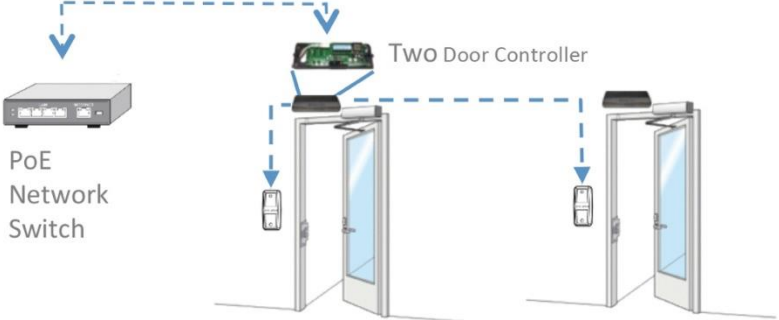


Photo Badging Software



- 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

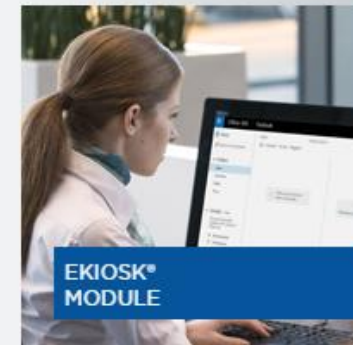
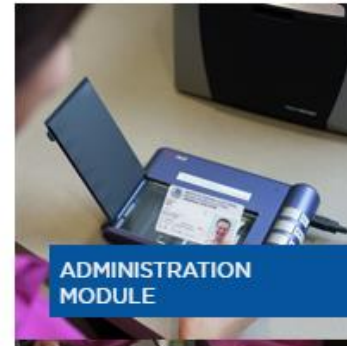
Visitor Management Integration



EasyLobby®

Visitor management system designed for the needs of any size organization.

- 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



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

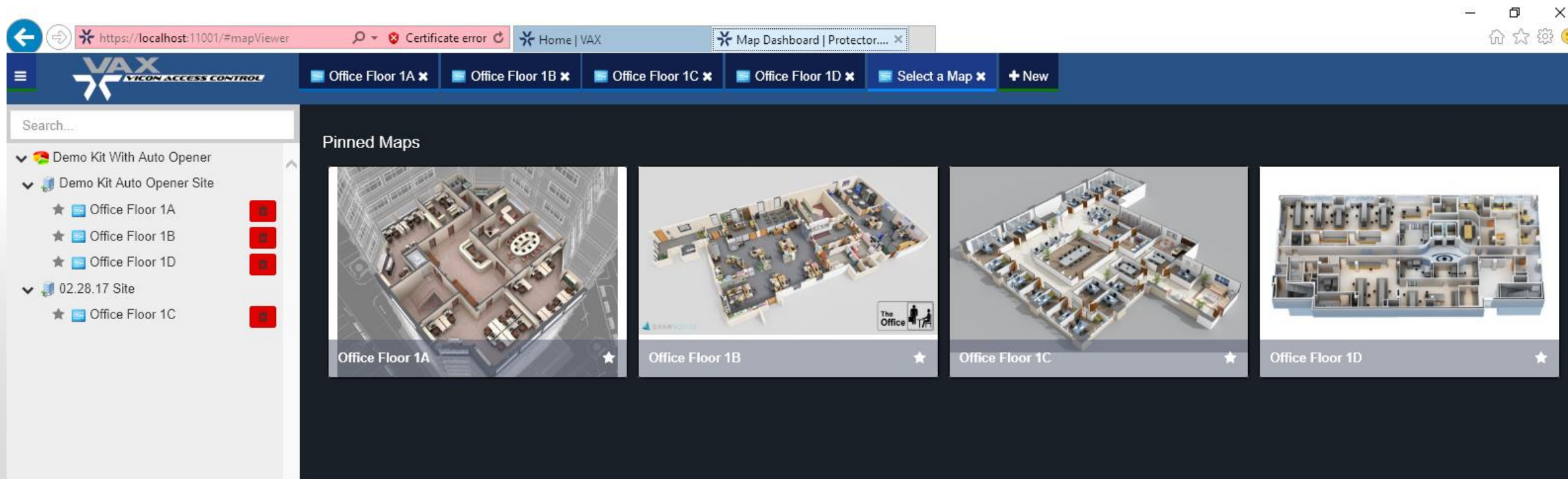
Import image files (PNG, GIF, JPEG, or bitmap) for maps



The screenshot shows a web application interface for adding a new map. The main window has a dark header with the title "Add Map" and a sub-header "Add new map". On the right, it says "Managed By Vicon Security". Below the header is a breadcrumb trail: "Home / Map Configuration / Add Map". The main content area is titled "Map" and contains several form fields: "Name" (text input), "Description" (text input), "Image" (text input with a "Browse..." button), "Partition" (dropdown menu with "Demo Kit With Alarm System" selected), and "Site" (dropdown menu with "Choose.." selected). An "Undo" button is located at the bottom left of the form. A "Choose File to Upload" dialog box is open over the "Image" field, showing the "This PC > Pictures" directory. The dialog displays a list of folders: "Pictures", "Videos", "Windows7_OS (C:)", "My Passport (D:)", "Lenovo_Recover", and "My Passport (D:)". The "Pictures" folder is selected, and its contents are shown: "2017-01-02 family photos", "2017-04-18", and "Camera Roll". The "File name:" field is empty, and the file type filter is set to "All Files (*.*)".

Maps

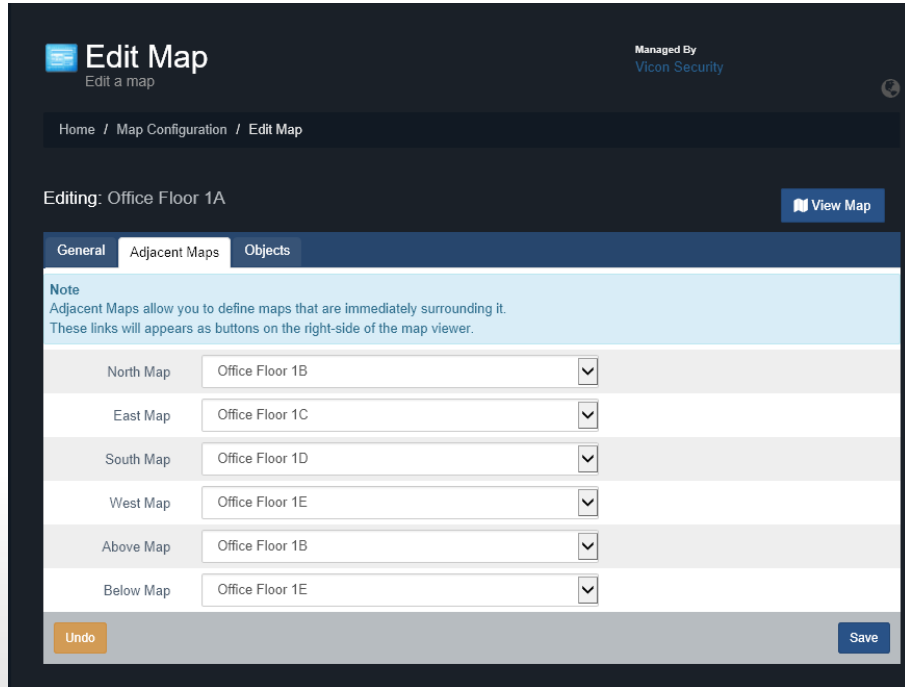
- No limit to the number of maps that can be used
- Create maps on multiple tabs and easily select between maps



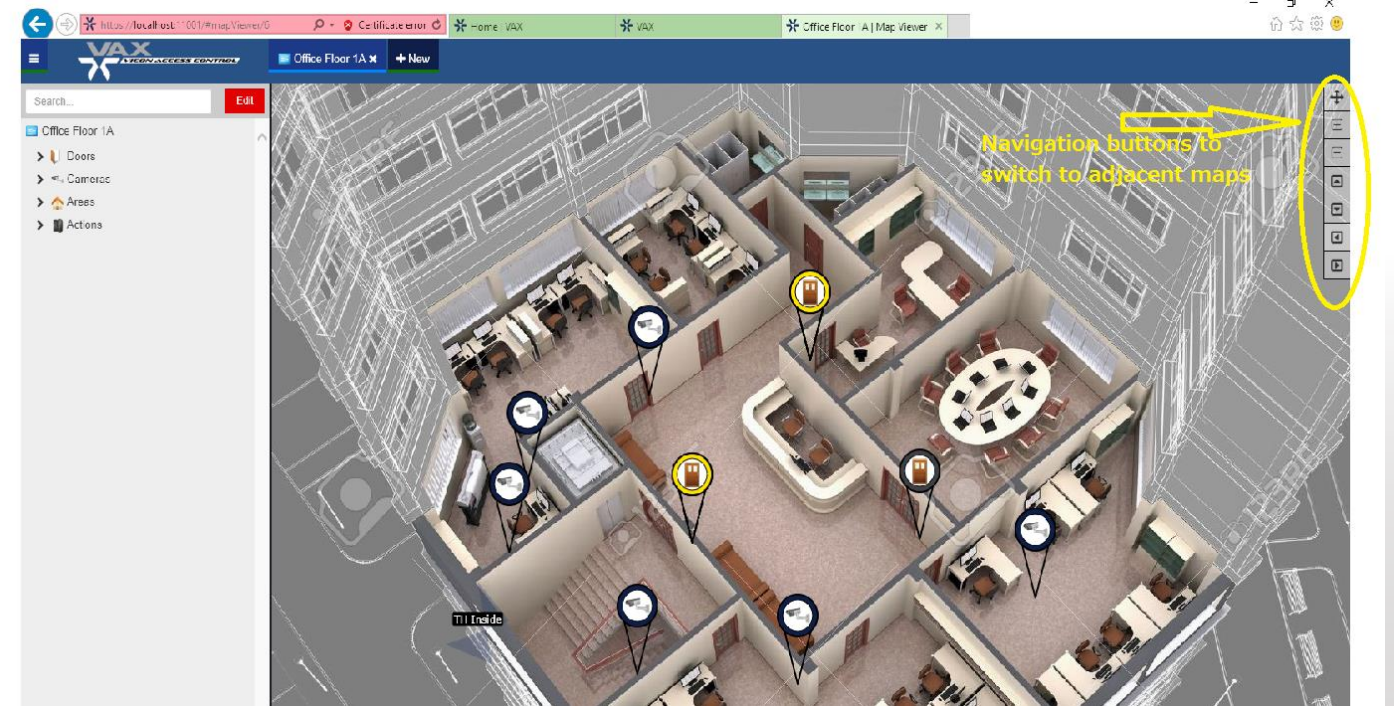
The screenshot displays the VAX VICON ACCESS CONTROL software interface. The browser address bar shows <https://localhost:11001/#mapViewer>. The interface features a top navigation bar with the VAX logo and a tabbed interface with tabs for "Office Floor 1A", "Office Floor 1B", "Office Floor 1C", "Office Floor 1D", "Select a Map", and "+ New". On the left, a sidebar contains a search bar and a tree view of map categories: "Demo Kit With Auto Opener", "Demo Kit Auto Opener Site" (containing "Office Floor 1A", "Office Floor 1B", and "Office Floor 1D"), and "02.28.17 Site" (containing "Office Floor 1C"). The main area, titled "Pinned Maps", displays four 3D architectural renderings of office floors: "Office Floor 1A", "Office Floor 1B", "Office Floor 1C", and "Office Floor 1D". Each rendering is accompanied by a star icon, indicating it is a pinned map.

Maps

Quickly navigate between maps by assigning “Adjacent Maps”

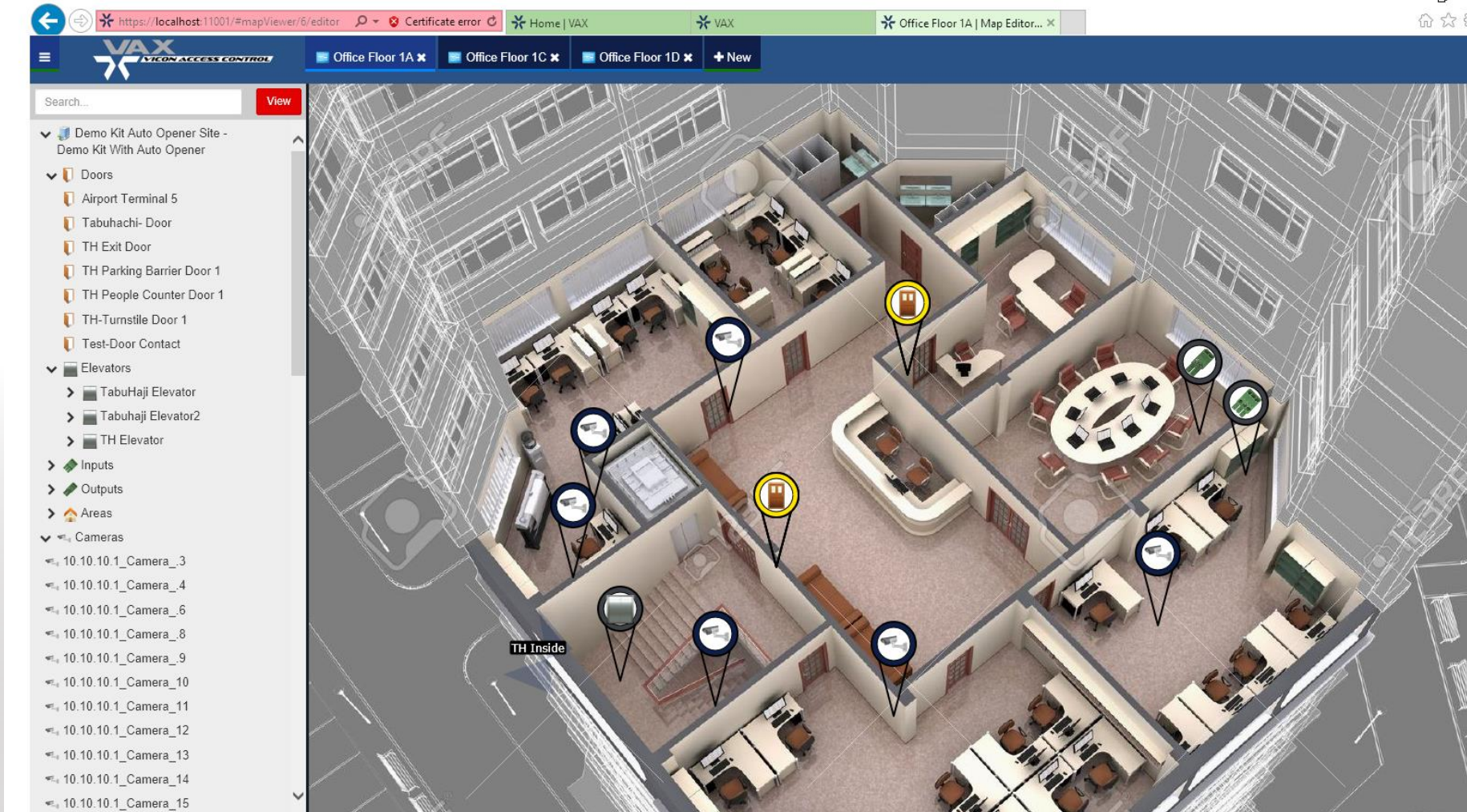


Use up, down, left, and right arrows on a map to navigate between adjacent maps



Maps

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



Maps

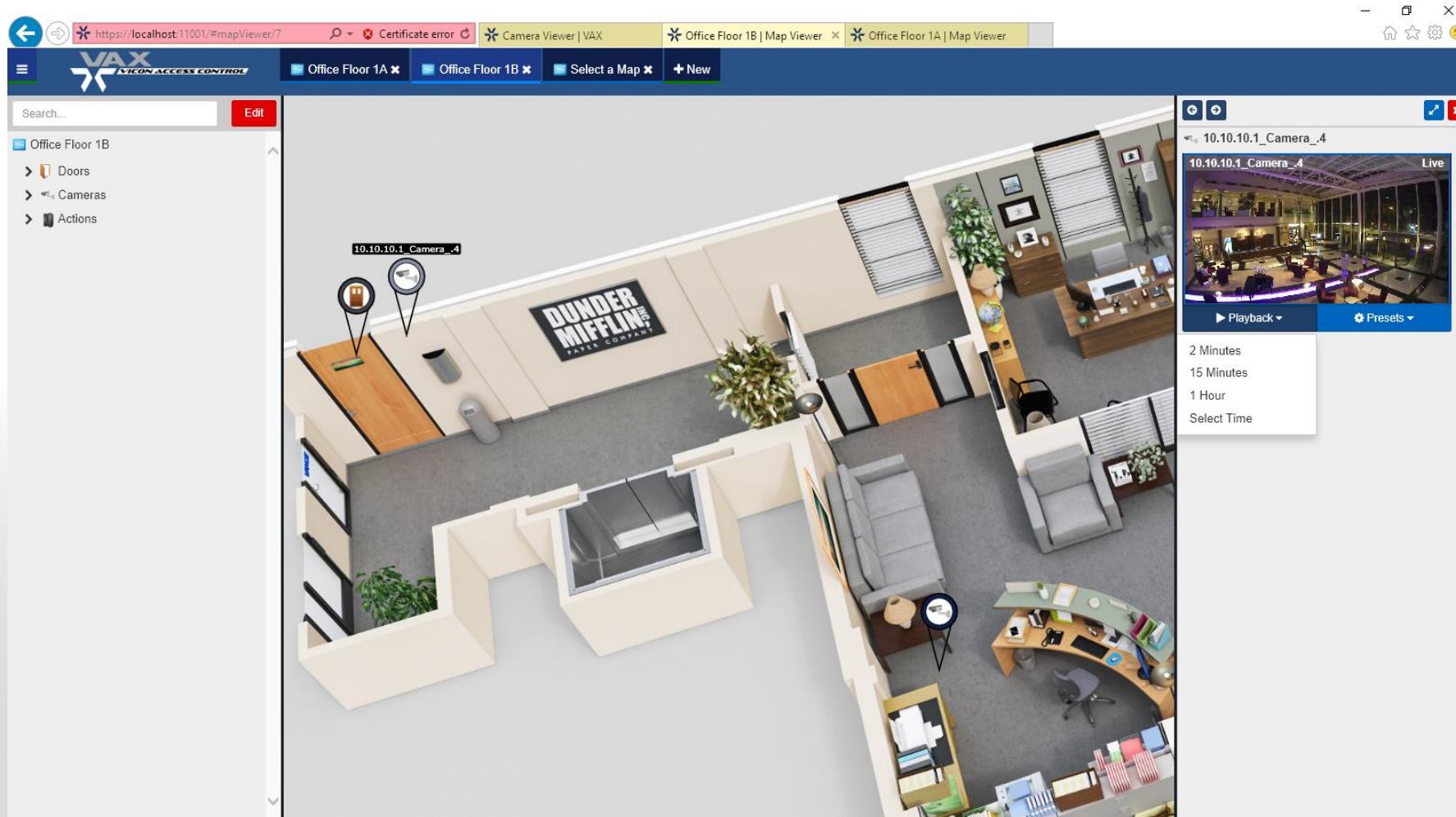
Clicking an icon for a door, elevator, input, or output allows you to see the real-time state (e.g. Card Only access) of that object, associated video, and gives you Override control



The screenshot shows the VAX VICON ACCESS CONTROL software interface. At the top, there's a browser address bar with 'https://localhost:11001/#mapViewer/6'. Below that is a navigation bar with 'Office Floor 1A' and a '+ New' button. On the left, a sidebar lists categories: Office Floor 1A, Doors, Elevators, Cameras, Inputs, Outputs, Areas, and Actions. The main area is a 3D wireframe floor plan of Office Floor 1A with several circular icons placed on different doors and areas. One icon is highlighted with a yellow circle. On the right, a detailed control panel for the 'Vicon Lobby Door' is visible. It shows the door's status as 'Card Only - Closed' and includes buttons for 'Resume', 'Pulse', 'Edit', and 'Activity'. Below this, there's a 'Schedule Info' section for '10.10.10.1_Camera_6' with a live video feed. At the bottom of the control panel, there's an 'Override Door' section with dropdown menus for 'Type' (set to 'Until resumed'), 'Duration' (set to '5 Min'), and 'Mode' (set to 'Lockdown'), along with a prominent red 'Override' button.

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.

The screenshot shows the VAX VICON ACCESS CONTROL software interface. At the top, there's a browser address bar with 'https://localhost:11001/#mapViewer/11' and a 'Certificate error' warning. The main header includes the VAX logo and navigation tabs for 'Office Floor 1B', 'Office Floor 1C', and '+ New'. On the left, a sidebar menu lists 'Office Floor 1C', 'Doors', 'Cameras', 'Areas' (with 'TH Inside' selected), and 'Actions'. The central part of the interface is a 3D isometric view of an office floor plan. A specific area is highlighted in light blue and labeled 'TH Inside'. On the right, a panel titled 'TH Inside' shows 'Users In Area: 2'. Below this is a table with two columns: 'User' and 'Last Activity'.

| User | Last Activity |
|--------------------------------|----------------|
| Alex William | Jun 20 6:33 AM |
| Alexia Cummins | Jun 20 6:32 AM |

At the bottom of the panel, it says 'Showing 1 to 2 of 2 Users' with navigation arrows.

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)



The screenshot shows a web browser window with two tabs: 'Time Tracking | VAX' and 'Office Floor 1C | Map Viewer'. The browser's address bar shows 'https://localhost:11001/#reporting/userTimeTra'. The application interface is dark-themed and titled 'Time Tracking' with the subtitle 'Track users working hours'. It is managed by 'Vicon Security'. The main content area is divided into several sections: 'Saved Reports' with a dropdown menu; 'Date Range' with 'Start Date' (2017-06-11) and 'Stop Date' (2017-06-12) fields; 'In Readers: (1 Selected)' with a search box and a list containing 'Vicon Lobby Door' (checked), 'Vicon Office1 Door', and 'Warehouse Door IN'; 'Out Readers: (1 Selected)' with a search box and a list containing 'Vicon Lobby Door', 'Vicon Office1 Door' (checked), and 'Warehouse Door IN'; and 'Output: Inline' with 'Create Template' and 'Run Report' buttons. On the right side, there is a sidebar with a red header showing '2/32 Panels Online'. Below this is a video feed of a lobby area. A list of security events follows, including: 'Mike Davis Denied Access to Vicon Lobby Door due to Invalid Card or Pin with credential 33-1116' (2017-6-19 23:12:50); 'Vicon Lobby Door Demo Kit Auto Opener Site Door Vicon Lobby Door is Now Locked' (2017-6-19 23:53:39); 'Vicon Lobby Door Demo Kit Auto Opener Site Door Vicon Lobby Door is Now Unlocked' (2017-6-19 23:53:34); 'Vicon Lobby Door Demo Kit Auto Opener Site Door Vicon Lobby Door is Now Locked' (2017-6-19 23:39:08); 'TH Inside Demo Kit Auto Opener Site Alexa Cummins is now in area TH Inside' (2017-6-19 23:39:03); 'Vicon Lobby Door Demo Kit Auto Opener Site Door Vicon Lobby Door is Now Unlocked' (2017-6-19 23:39:03); 'Vicon Lobby Door Demo Kit Auto Opener Site Alexa Cummins granted access to Vicon Lobby Door due to master privilege with credential 100-10075' (2017-6-19 23:39:03); and 'Vicon Lobby Door Demo Kit Auto Opener Site Door Vicon Lobby Door is Now Locked' (2017-6-19 23:38:59).

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.

THANKS



Simple Solutions for a Complex World

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