May 2023

# Vicon Access Control Version 3.1 (build 34)

# **General Description**

Vicon has released an updated version of the Vicon Access Control (VAX) Server software. This update includes the enhancements and fixes listed below. Installing this version on currently installed VAX software will not require any new licensing and will not change the system settings.

# **Vicon Production**

This new software version will be used by Vicon production going forward. It will be published on the Vicon website as:

- Full installation package including SQL Express 2019 and other prerequisites. This version is recommended for new installation on a server that does not have internet access.
- 2) Compact installation package for upgrades on server with internet access.

# **Field Installation**

## **New Systems**

Installing this software version on either Vicon hardware or on compatible COTS/VM hardware should be done according to the published specifications and installation guide.

## Updating Existing Systems

Installing this software version on existing hardware must meet the minimum requirements. It is recommended to backup VAX settings prior to upgrade in the event of any issues occurring during the upgrade process.

## Licensing

The VAX server requires a valid VAX license in order to operate correctly. If this software is installed to upgrade an older version of VAX, the license on the system will remain valid. For a new installation, the system allows a grace period to license the system through Vicon sales. Please make sure to license the system as soon as possible to avoid licensing related issues.

# **New Features and Operational Changes**

## New UI Design

VAX has a new interface with the ability to view and customize the system dashboard giving real-time status of the system. It is optimized for larger systems, allowing you to manage thousands of doors with the following tools:



## System Dashboard

Customizable and responsive dashboard replaces the Home Page. Ability to add and customize the following widgets:

- Navigation Group: Shows one or more links to either internal or external pages
- Chart: Configurable line or bar chart showing one or more configurable datasets based on notifications
- Statistic: Count of entities in the system (e.g., number of users)
- System Health: Overview of current system health and any issues
- Report: Activity report showing the latest configured notifications
- Muster: Last activity of all users in the system today

🛃 Home -					ß	<b>Ф</b> •
						2 12 / 12 Panels Online
¢,		52	120	0	0	III Widgets
Partition	Panels	Doors	Users	Elevators	Action Plans	🔗 Navigation Group
						😫 Chart
System Health		Recent Alarms		Daily Access History		# Statistic
≣ ID	VET	Door 1080 Is Being	Held Open 05/01/2023 09:25:04 am	Access Granted		😵 System Health
Amory Memory	69%	Door 1080 Is Being				<b>ி</b> Report
器 Address 10.221.10	3.25			0.2	•••••	🛎 Muster
💝 is:		Door 1049B Is Being	g Held Open 05/01/2023 09:29:41 am			🙆 Live Camera
License will expire i	days.	Door 1049B Is Being	g Held Open 05/01/2023 09:31:56 am			📜 Action Plan
08:44 am		Door 1049B Is Being Held Open 05/01/2023 08:42:28 am				Webpage
		Door 1049B Is Being	g Held Open 05/01/2023 09:47:02 am			
Healthy	Warning Critical	Door 1049B Is Being	g Held Open 05/01/2023 09:50:43 am	User Activity		
		Door 1049B Is Being	g Held Open 05/01/2023 09:54:11 am	User	Reader Time	

#### **Alert Activities**

Through the Notifications Menu, specific device status/activities (e.g., door held open, panic button) can be configured as Alerts that appear in the Recent Alarms menu on the Home page. Rules can be created with a customized message that appears when that event occurs and requires alarm acknowledgement.

🌲 Alert Rule				
Partition	Building A 🗸			
Notification Category	Door Exit Button	• •		
Notification Types	Any	•		
🁺 Panel	VAX Demo	• •		
Door	Monitored Door 17	• 🛛		
20 Acknowledgements				+ New Acknowledgement
Acknowledgement 1	💽 Any 🌑 Group 🌑 Administrator 🔳	Requires Supervisor		
单 Rule		C Time Restrictions		
Message	Contact Security	Start Time		
Acknowledge Timeout	C mins -	End Time		
Email Recipients		Day Of Week	SMIWIES	
Priority	Normal 🗸			

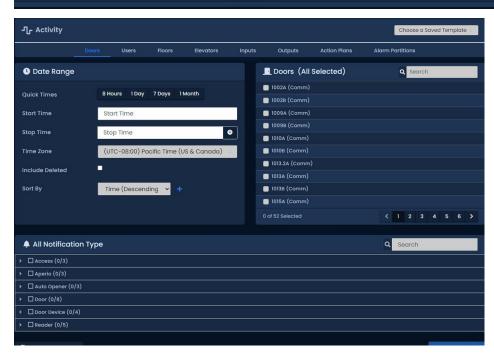
## Scheduling

A new Scheduling menu replaces previous Time Zones menus and are configured as follows:

- Combined Door, User, Input, Output, and Floor Schedules into a single Schedules page
- Combined Door, User, IO Holiday Groups into a single Holiday Groups page
- Combined Door, User, Floor, Elevator, Input, Output, and Action Plan activity reports into a single Activity page



C Schedules								+ Add
		Doors	📕 Floors	📟 Inputs	Outputs	💄 Users		
Q Search								
Name		Description					Partition	
🏩 Always Card Access		Door is always (	Card Access				Default Partition	
🔅 Always Unlocked		Door is always i	unlocked				Default Partition	
Card Access 6-8		Empty					Default Partition	
🔅 Card Access 9-5		Door is availabl	le for card access	9-5 and locked of	therwise		Default Partition	
Locked Down		Door is always l	locked				Default Partition	
🔹 Unlock 7-5		Empty					Default Partition	
Showing records 1 to 6 of 6 re	ecords							< 1 >
The Holidays > Add Holiday	v							
-								
🌣 Holiday						_		
Name	Required							
Description	Optional Description	on				1		
Initial Date								
Occurs Annually	-							
Use Preset Holiday	-							
📽 Groups								Building A
별 User Groups								
No Holidays								Holiday Access 9AM to 5PM
Standard Holidays								Holiday Access 9AM to 5PM
No Holidays								Card During Holiday :
Standard Holidays								Card During Holiday
Floor Groups								
			No Records Four	hd				
🌣 I/O Groups								



Scheduler has been redesigned with the following features:

- Ability to drag start and end of spans to adjust times
- Ability to drag and create spans across multiple days
- Show list of every span for a given day

C Schedules > Edit Door Schedule				
() Schedule				
Name	Access 7-5			
Description		li.		
		Lockdown Card Only Pin Only Card or Pin Co	and and Pin Unlock First Credential in Dual Credential	
12AM AM 23M Sunday Monday Tuesday Wednesday Thursday Finday				
Sunday         Copy -           © 1200AM - 659AM         0           © 700AM - 459PM         0           © 500PM - 159PM         0           3 / 40 Spons Max         0	+ Container Container Linndown	Start Time 35	Val Credential OI PM 59 PM	
"O Undo				✓ Sove

#### Permissions/Security Groups

Administrative permissions have been enhanced and changed to the following features/structures:

- Grant global permissions that affect all partitions
- Split most existing permissions into View/Add/Edit/Delete permissions
- Grant granular permissions for specific administrators (e.g., Edit User permission for only Test User)
- Ability to include, exclude, except or deny permissions for certain administrators (e.g., Grant Delete Users except for Admin User)
- Override Door split into Normal, Lockdown, and Crisis Levels
- Created global permissions for most previously system admin exclusive permissions
- Ability to allow non-system Administrators to create other limited Administrators
- Ability to have non-system Administrators dynamically gain permissions to entities they add when they have include permissions (e.g., an Administrator that has Include View Users and Add Users permissions would be granted View User permission for their newly added users)
- Assign permissions to a group of Administrators

🎝 General	Security Groups	Privileges	🔓 Privilege Report	<b>*</b> Change Password	📑 API Key	
P Partition Access and Priv	vileges				Q Search	
Global (21/218)	÷					✓ Save
☑ Check All □ Uncheck All						🛓 Import
✓ Users & Scheduling (4/4)						
🗹 Access Privilege Groups (5/5)						◎ + ∥ ≣ 4
🗹 🕑 View	All 🝷					
🗹 🕂 Add	All 👻					
🗹 🖋 Edit	All 👻					
🗹 盲 Delete	All 👻					
🗹 🚢 Manage Membership	All 👻					
☑ Users (10/10)						) 🖻 🖬 🕇 # 🛓
✓ Card Templates (4/4)						0 / 🔋 I
☑ Card Template Images (2/2)						0 í
□ System (0/7)						
Devices (0/7)	<u>_</u>			<u>_</u>		

# **Photo Badging**

VAX now includes embedded photo badge design and printing functions through an easy-to-use click and drag interface. This eliminates the need for third-party badge design software. Using the Card Templates menu, the following features are available:

- Design front and back of photo badges
- Place user profile pictures and fields on badges that dynamically update
- Place QR Code and Barcodes on badges that dynamically update with user information
- Ability to quickly print badges from the Edit User page



#### **DSC Alarm Integration**

VAX integrates with DSC PowerSeries Neo Alarm/Intrusion panels via IP communication. The integration allows the following options:

- Real-time notifications and control of DSC Alarm Partitions and Zones
- Full Action Control Engine integration with alarm triggers and actions
- Alarm code integration to associate alarm codes with users
- Virtual keypad support to allow full configuration of the alarm system from VAX
- Associate Doors to Alarm Partitions to allow for automatic arming and disarming via IP integration (equivalent to hard wired I/O alarm support but over IP)

#### Schlage Lockset Integration

VAX integrates with Schlage NDE/LE Wireless Locksets using the Engage Gateway via IP communication. Requires the purchase of VAX-SCHLAGE license for each NDE/LE Wireless Lockset that is added to VAX. Also requires the use of Schlage's ENGAGE mobile app to enroll locksets into an Engage Site. Once added to VAX, the Wireless Lockset will act like other Doors in VAX and have the following features:

- View Engage Sites (list of Wireless Locksets and their configuration)
- Real-time notifications (e.g., card read, door state, etc.)
- Set Schedule
- Override Schedule

#### **Mobile Credentials**

VAX can send Mobile Credentials to the Vicon Pass app (available on App Store and Google Play) allowing the app user to unlock certain doors through web communication to the VAX server. It also has the option to enable the Vicon Pass app to send a link to a visitor for a one or multiple time unlock of specific doors.



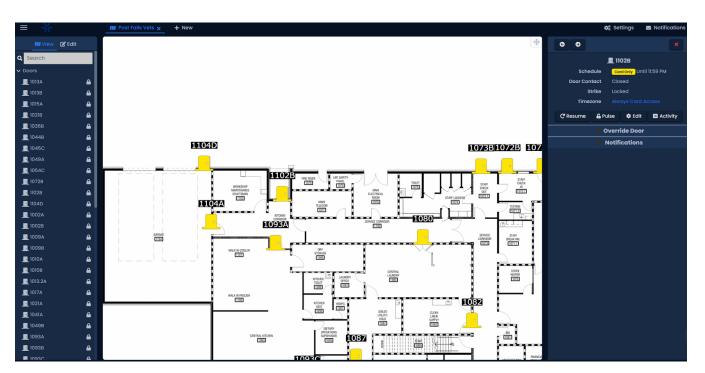
	Users > Huy	Lai							User Activity I	Report
	🛓 General	🏷 Custom	🗳 Images	🖬 Credentials	🔒 Mob	ile Credentials	Access Groups	Panel Actions	🕈 Anti-passback	
					6	Note				
		Users co	in download the Vi	con Pass app on th	Get IT ON Google Pla	Download on the	o to unlock doors and gr	ant visitor passes.		
+ Add	d Credential				Cred	lentials				
Email Ad	dress				Disable	Resend Invite	Name		Card Number	
	i@google.com s field will only save	when Add Mobile C				Send Invite	Test Google		61000-1042946352	C î
			+ Add Mobile Cr	edential						
				11-22 R	All Partitions *					

			De	fault Site	
Edit Credential			C		
Name	Test Operation		C		
Name	Test Google				
Visitor Pass			C		
<ul><li>✓</li></ul>					
			=		
			6	Unlock D	
		Cancel		Give Visit	

## Map Enhancements

Maps have been enhanced with the following features:

- Ability to scale size of object
- View real-time notifications of objects in the info drawer
- Hotkeys to control map position and cycle through objects
- Option to show occupancy counts for each area on the map



# System Health

Monitor and configure alerts for the following system health issues:

- Device Low Battery
- Device Tampered
- New Device Firmware
- Device Disconnected
- Uninstalled Panels
- LDAP Conflicts
- Low Memory
- Database Backup
- Low Disk Space
- Database Size



Editing: System Health		Telete	×
Name	System Health		
	🍄 Server Issues		
🕑 Show Memory Usage			
🗹 Show Disk Usage			
🕝 Show Server Address			
🛃 Show Issues			
	🏶 Device Issues		
🕑 Show Device Health Char			
🕝 Show Device Health List			
🕑 Show Pagination			
Per Page	10 \$		
	Ca	incel S	ave

#### Username and Password Overhaul

Administrator Usernames and Passwords have been enhanced as follows:

- Usernames can be alphanumeric characters
- Configurable passwords with min/max length and complexity requirements
- Configurable prohibited password list to prevent usage of common phrases
- Optional expiration of passwords to require Administrators to change at certain intervals
- Support for third party OAuth Authentication (using third party authentication providers, such as Google or Microsoft, to authorize Administrators to VAX)
- Support for TOTP (Time Based One Time Password) and FIDO/WebAuthn two factor authentication
- Ability to send invitations to new Administrators and allow them to configure their own password and information



Authentication	Settings			
Local	Local Authentication Set	tings	Prohibited Pc	asswords
OAuth	Allow Local Authentication			+
Two Factor Auth	Minimum Password Length	5	12345	•
	Maximum Password Length	255	123456	
			1234567	•
	Password Requirements	Lowercase Character Uppercase Character	12345678	Ø
		Number	123456789	
		No Common Passwords		Ø
	Password Expiration	0 🕔 days 👻	password	Ø
	December 1111		password1	
	Password Attempts Before Lockout	5	test123	Ø
	Lockout Time	10 O mins -	abc123	•
	Invitation Settings		admin	•
			qwerty	æ
	Enable Administrator Invitation	s	qwerty123	×
	Invitation Duration	🕓 weeks 👻	demo	
			demoadmin	

#### **Database Notification Management**

Notifications stored in the VAX Database can now be set to automatically purge with the following features:

- In System Settings menu, set limit on how many days of notifications are retained before it is automatically purged
- Set limit on how many notifications are retained before a set number of notifications is automatically purged

🗱 Vicon						
	Ceneral Configuration	â Authentication	@ Email Configuration	"A" Service Requests	Purge Notification	
# Purge Notification	nc					
Automatic Pu	ırge					
Configure a time of the	aday that VAX should automo	atically purge all notifie	cations that have exceeded	their retention policy conf	igured above.	
Enable Purge Notificatio	ons					
Time	10:39	AM				
Day of Week	7/7	Sunday,	Monday, Tuesday, Wednesd	day, Thursday, Friday, Sat	urday	î
Notification L	imit					
Configure a maximum	notification count that will au	itomatically trigger a p	ourge of the configured num	ber of oldest notifications	from the database.	
Notification Limit			250000			
Purge Size			100000			
Store Purged Notificatio						
් Undo						✓ Save

• Store purged notifications in CSV file



#### **Preset Holidays**

Holiday menu now gives the option of selecting preset US, Canadian and Jewish holidays.

<u> </u>	oliday
🌣 Holiday	
Name	Good Friday
Description	Optional Description
Initial Date	04/07/2023 12:00 AM
Occurs Annually	•
Use Preset Holiday	
Canadian Holidays 🏾	American Holidays 🔍 Jewish Holidays 🔍
American Holidays	Good Friday
📽 Groups	Building A
² User Groups	
📄 No Holidays	Holiday Access 9AM to 5PM 👘
Standard Holidays	Holiday Access 9AM to 5PM 👘
📃 Door Groups	
📄 No Holidays	Card During Holiday

#### **Bulk Actions**

There is now the ability to mass edit Users, Access Privilege Groups, Custom Fields, Panels and Doors.

#### Panel I/O Import and Export

There is now the ability to import or export IO configuration to other panels to duplicate IO configuration.

#### Linked Actions/Conditions

There is now the ability to set when a VAX-MDK panel's actions should execute. Multiple VAX-MDK panel actions can be linked to execute together.

#### Valerus Integration

VAX 3.1 integrates into Valerus 23.2 and the following features from VAX are available in Valerus:

- VAX Doors are listed and Notifications can be monitored in Valerus through video pane or in Maps
- VAX Door Schedule can be overridden in Valerus through Monitoring menu tree or in Maps
- VAX Inputs are listed and input state can be monitored in Input Menu or in Maps
- VAX Outputs are listed and can be enabled/disabled through Monitoring menu tree
- VAX Action Plans are listed and can be enabled/disabled through Monitor menu tree or in Maps

# **Bug Fixes**

The following issues have been fixed:

- Alarm Panels page missing
- VAX 3.1 installation not correctly locating the VAX 2.10 installation details during upgrade
- Javascript error when trying to load the software in IE11 mode
- Improved performance of table updates when there is a large number of deleted users
- Dashboard charts clipping outside of the widget card
- Chart widgets not showing values when Daily/Hourly timescales are configured
- Master users unable to generate visitor links on Visitor Pass app
- Added missing User Activity Report button on Edit Users page
- Improved performance of Photo Badging with large images
- Lightened color of scrollbar in VAX, improved Monitoring page design