VICON

VICON VALERUS VMS 24.1 BUILD 24.100.39.0

May 2024

General Description

Vicon is releasing a new version of Valerus VMS, version 24.1 (24.100.39.0). This version is providing updates and fixes for items reported by customers and the testing team.

Installing this version on currently installed Valerus VMS will not require any new licensing and will not change the system settings. It is recommended to update all Valerus systems to the latest version at all times. With this release, a new version of the Valerus-ViconNet Gateway is also provided and may be used to upgrade the ViconNet Gateway if needed (installed separately, not updated automatically).

Software Versions

The Valerus VMS is built out of several different software modules packaged in a unified installer; Vicon identifies a version by the package numbering, however each module has its own internal version number. In the Valerus software, versions are listed in the "About," "NVR" and "Gateway" pages.

Module	Description	Former version	Current version
VMS version	This is the full package version that will be referred to in all documentation	23.400.20.0	24.100.39.0
Application Server version	This is the application server module internal version	23.400.13.0	24.100.18.0
Recording Server (NVR) version	This is the NVR module internal version	23.400.13.0	24.100.18.0
Valerus-ViconNet Gateway version	Module to connect Valerus to ViconNet system	23.400.13.0	24.100.18.0
Internet Gateway + Media Server version	This is the Internet Gateway and Media Server modules, which can be installed when connecting to a public network	23.400.13.0	24.100.18.0
Thick Client	Thick client for Valerus	23.400.13.0	24.100.18.0
Keypad PLC version	This is the module supporting keypad and PLC control of the client	23.400.2.0	24.100.1.0
Client version	This is the web client UI internal version	23.400.14.0	24.100.23.0
Player version	This is the video Player module internal version	23.400.1.0	24.100.4.0

As updates to the Valerus software are being released, an updated VMS installation package will be made available. When installed, the modules that have changed will show an updated internal number while the ones that have not will remain as before.

Updates to the Internet Gateway, Media Server, Thick Client, and Keypad/PLC installations will be available on the built-in software download page in Valerus.

The Valerus-ViconNet Gateway software (if needed) is a separate download on the Valerus software download page due to the total size and expected download times.

Vicon Production

The new version will be used by Vicon production going forward.

This version of the software is published on the Vicon website and may be downloaded and installed on COTS hardware according to the Vicon specifications.

Field Installation

New Systems
Installing a new Valerus system either with Vicon hardware or on compatible COTS/VM hardware should be done according to the published specifications and installation guide.

Updating Existing Systems
Installing the Valerus VMS software on existing hardware must meet the minimum requirements. In the case of older ViconNet VMS hardware, Vicon has a guideline listing the models and their manufacturing dates that can be updated along with hardware upgrade kits for the compatible units.
Note that after an upgrade, all users will be required to log in again to update their security credentials with the new ones introduced in this version.

Features and Enhancements

Integration with Aureus Insight

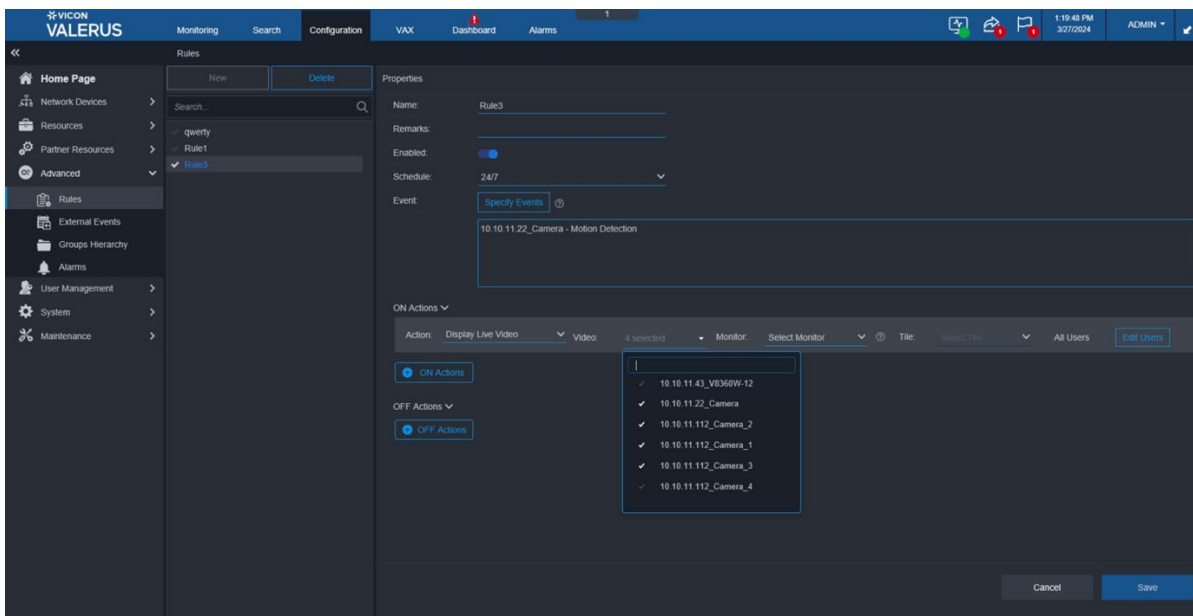| Feature licensing in the different tiers: Note that when upgrading from an older version, the license must have a valid UPP or this feature will not get enabled.	**ENT**	**PRO**	**TRY**
	Included	NA	Included

Valerus now allows integration with Aureus Insight Facial Recognition 3rd party applications
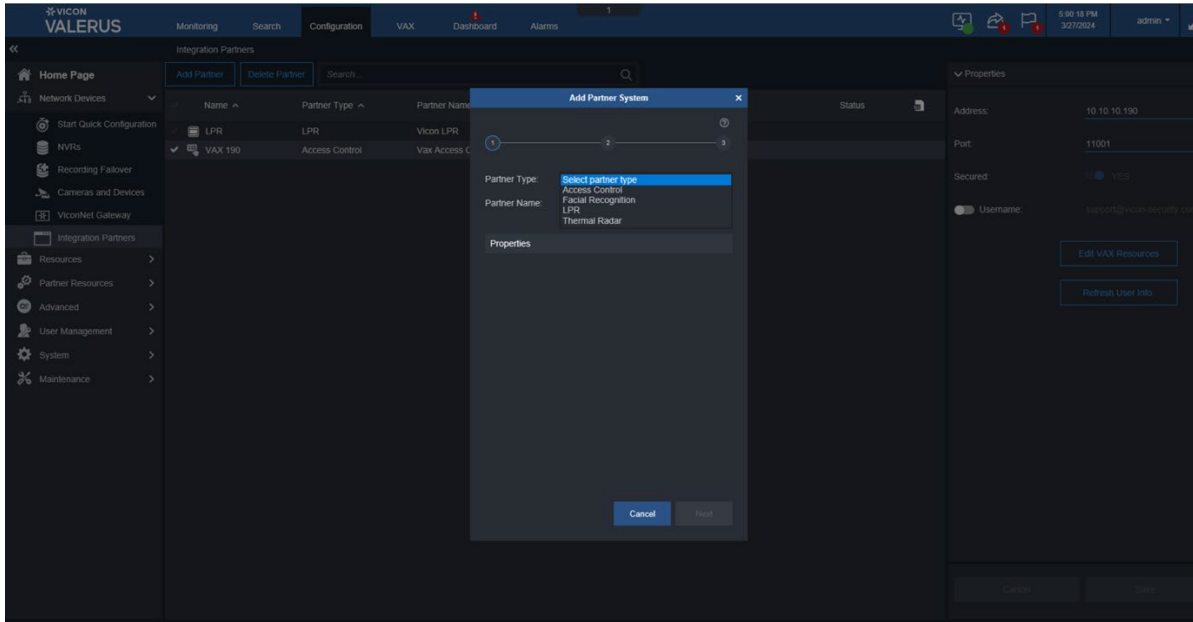
Display live view from up to 4 cameras for ON Actions in Alarms and Rules

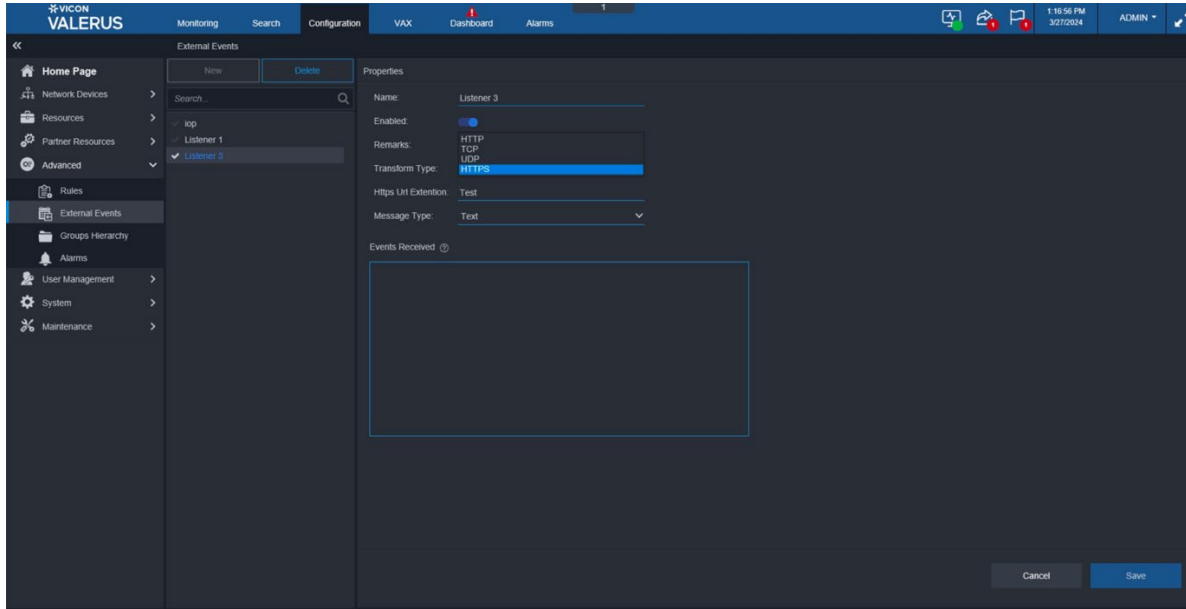| Feature licensing in the different tiers: Note that when upgrading from an older version, the license must have a valid UPP or this feature will not get enabled.	ENT	PRO	TRY
	Included	Included	Included

Valerus supports up to four (4) cameras to display live video when the Alarm tab opens.

External Events in Valerus now supports HTTPS protocol

Feature licensing in the different tiers: Note that when upgrading from an older version, the license must have a valid UPP or this feature will not get enabled.	ENT	PRO	TRY
	Included	Included	Included

Support added for HTTPS (Port 443) for External Events, enhancing system security.

Bulk alarm creation

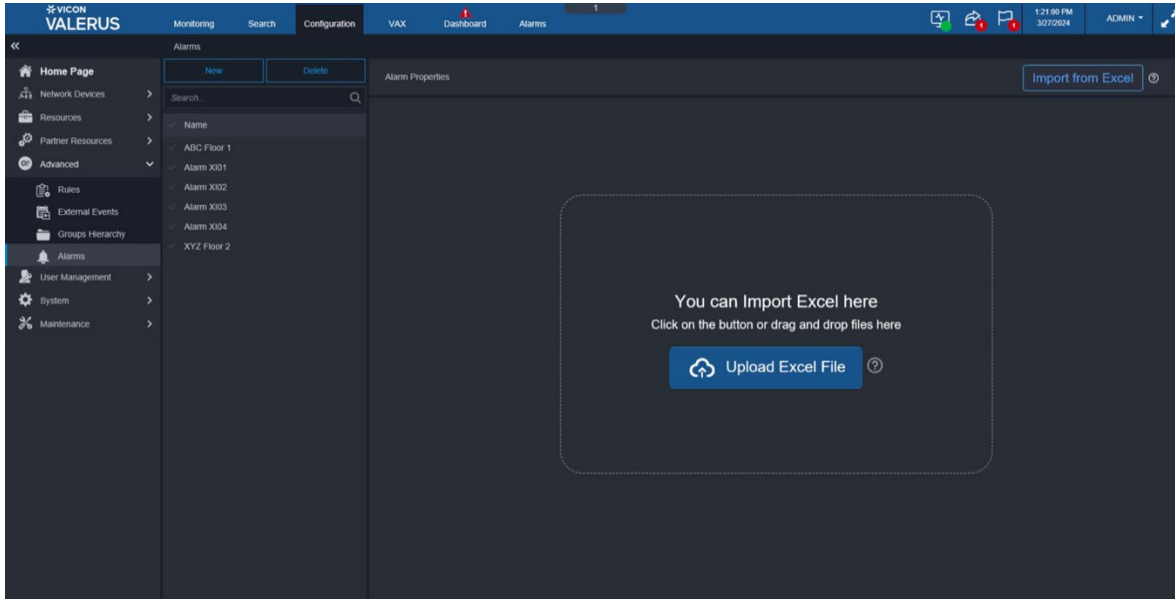| Feature licensing in the different tiers: Note that when upgrading from an older version, the license must have a valid UPP or this feature will not get enabled.	ENT	PRO	TRY
	Included	Included	Included

Valerus supports importing multiple alarms (External Events only) in a single action using an Excel sheet template.

Test Email button

Feature licensing in the different tiers: Note that when upgrading from an older version, the license must have a valid UPP or this feature will not get enabled.	**ENT**	**PRO**	**TRY**
	Included	Included	Included

Added a feature in Valerus to test email configurations directly within the configuration interface.
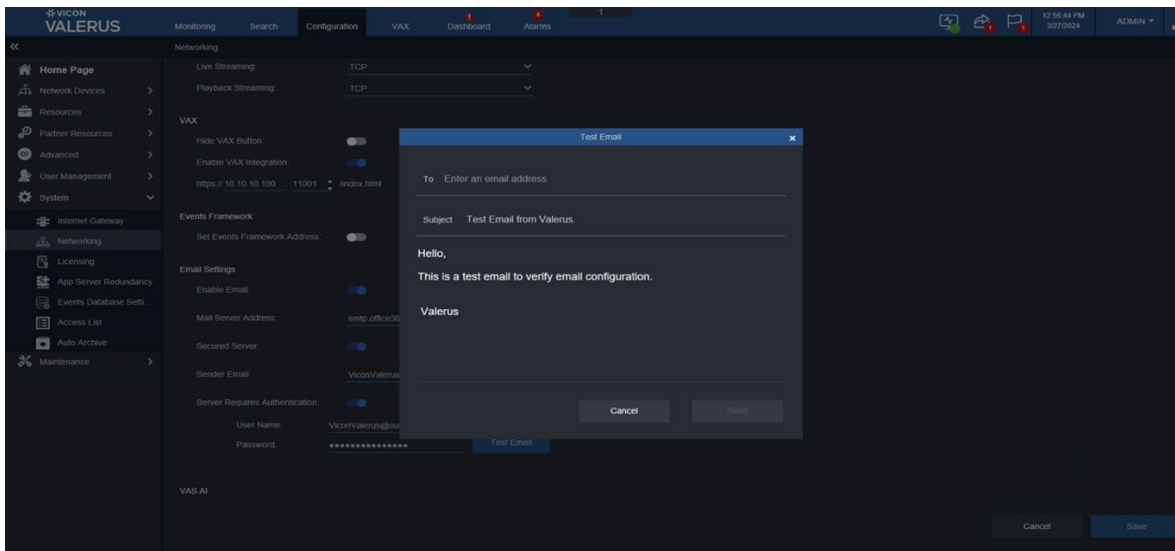
Fixes and Enhancements in this Version

JQuery
Updated JQuery version to 3.6.4 for enhanced compatibility and performance improvements.

Performance improvement for Authorization Role saving
Fixed an issue where high resource counts in Authorization Roles caused delays and confusion for users, leading to spikes in CPU and RAM usage. Implemented a loader (spinner) to indicate saving progress, preventing multiple clicks and ensuring smoother performance.

Layout with PLC callups
Resolved an issue where certain layout transitions caused errors, particularly when switching to a 1x1 layout. Added checks to ensure the chosen layout quadrant exists before allowing the switch, preventing errors.

Backup Download Error 502
Fixed a problem where backup downloads failed due to file size limitations in Internet Explorer. Optimized code to allow downloading backup files larger than 2GB, with users receiving a notification indicating the backup process is underway.

Camera recording Track ID error
Addressed an issue where cameras failed to record due to missing track information in the NVR database. Updated the code to automatically create track details for cameras added to Valerus, ensuring proper recording functionality.

Group camera list adjustment
Fixed a problem where rearranging Resources within a group wasn't reflected correctly on the Group Hierarchy page. Implemented improvements to allow dragging Resources within and between different types, ensuring accurate display of changes.

Manual White Balance controls
Fixed an issue where manual White Balance controls disappeared when specific values were input. Modified the code to ensure that manual White Balance controls remain enabled regardless of input values, resolving the problem.

Known Issues and Limitations

Overlay
It is observed that when Overlay is enabled and disabled multiple times for a camera, the camera stops sending the Overlay information to Valerus and soft factory reset is required to fix this issue.

Support for Multiple Active Directories (AD)
When multiple ADs are used in Valerus, only users from the primary domain are listed in the Valerus user list, and users in another AD are not listed (ex.: user selection drop-down in alarm config/rules, etc.).

Alarm/Event Search
If the user selects Integration Partner events, such as an LPR or VAX event, the user is not allowed to select the same item in the additional criteria.

Alarm & Rule Action Monitor
If the user deletes a monitor for which rules are configured, the alarm and rule actions for that monitor will not be executed because the monitor ID doesn't exist.

Rules/Alarms
If rule/alarm action is set to run PTZ commands, user must add an additional action to display the PTZ camera in the same rule.

VAX Integration
Valerus supports only 1 VAX server. However, the addition of multiple VAX servers is not blocked by Valerus.

VAX I/O
VAX I/Os will not be available for VAX-MDK-MASTER or VAX-IO-STR2. This support will be added in a future release.

PLC Keypad
When a user changes the physical port of the VN-KEYPAD to a new port, user must restart the keypad service for operation of VN-KEYPAD.

Mapped Network Drive
Mapped drives support only SMB protocol (Server Message Block protocol used for shared access to resources on a network) for read/write operations.

Network/Cloud Drives
In some cases, total size of network or cloud drive takes a while to load. If "Total Size = 0 GB" displays for network or cloud drives, do not save any changes on the NVR configuration page until the storage is updated.

Access List Limitation
When defining an access list in Valerus, it will not be able to resolve MAC addresses across different subnets. To use an access list in such an environment, use the Valerus ID instead of MAC.

H.265 Display Issues
In some places, images streaming at H.265 show distortion, gray flashes and jumps. Switching the Client to TCP for Live View corrects this in most cases.

Dragging a Camera over Mic
If microphones are open on the Monitoring screen, and a camera is dragged over the microphone area at the bottom, it may cause the camera display tile to distort. Refreshing the browser will resolve the issue.

Detach of Sync Playback
If sync playback is performed, and that Monitoring tab is detached, the sync will break, and playback will need to be restarted.

Maximum Devices on Map
On a single GEO map, it is recommended that no more than 100 devices be added and on a Static map, no more than 200 devices. Adding more devices than recommended will impact on the Client's performance.

Stretched Snapshot Thumbnail
Occasionally, when creating a snapshot from Live or Playback feeds, the thumbnail shown on the Player is stretched (vertically or horizontally). This issue is only affecting the thumbnail and the actual saved snapshot file is created correctly.

Full Screen Forces Live
If tiles are displaying video in Playback mode, and Valerus is switched to full screen using the full screen button, the tiles will be forced into Live mode.

Presets with 360 Camera
When using the dewarp option with fisheye cameras, the presets in Valerus only work if the selected display mode is the same for all presets (full, quad, etc.). Trying to mix display modes will fail.

Views with Presets
When creating a View, if a camera is shown more than once (in different tiles), it will only be possible to use the same preset for all tiles. This applies to PTZ and 360 cameras that have presets. Allowing different presets for 360 cameras will be supported in a future version.

Snapshot Action in Audit Log
When taking a snapshot from the video played in Event Search, the Audit Log will only show the action (Snapshot taken) but not the camera name. This works correctly when taking snapshots from Monitoring.

Potential Mask Shift
When setting a mask in Valerus, returning to the masking page and making changes may cause the mask to shift slightly. A message was added in the screen requesting the user to verify the mask position after making changes.

Digital Input Configuration
Configuration of digital inputs is only possible for users in the Admin or Supervisor group and not when using users in other groups who will not see the digital inputs listed. The functionality does not have any effect on other users, only the configuration.

Playback Behavior in Events Query
In the Events Search Query form, if there is no video at the time searched, the Player opens at the closest available recording and does not display a message that there is no video at the requested time. This will be enhanced in the next version.

No Audio for Removed Channel
An audio channel that has been removed (deleted) from Valerus and is still seen as a "removed channel" cannot be played back.

Quick Config False Error
When running Quick Configuration, a message stating "camera communication lost" is sometimes shown although the camera has been added and working correctly.

Samsung Cameras Issue
When adding a Samsung camera and performing factory default on it, the camera sometimes will start showing two video resources instead of one. To resolve this, the camera needs to be removed from Valerus, reset to factory defaults, and then added back.

In addition, motion detection from certain Samsung/Hanwa cameras is not picked up by Valerus (different event topic in ONVIF). Topic will be updated in a future version.

UI Scaling Issue
The Valerus UI is optimized for full HD screen resolution (1920x1080). If Valerus is opened on a screen set for resolution 1280x1024, scroll bars are shown and the full screen button can't be reached. The current workaround is to set that browser to 75% zoom. This sets the UI but does not harm the video display.

Green Video V9360W
The older model V9360W cameras show green flashing on the video when exporting video from recordings made in a 1080p resolution. A workaround is to lower the stream to 720P.

Old ONVIF Camera Support
The old model cameras that have not updated their ONVIF version sometimes show ongoing disconnects and recording gaps in Valerus. A workaround is to remove these and add them back as generic RTSP devices (requires ANY camera license). This includes the older Vicon V960 and V980 series cameras.

Remote NVR Upgrades
In systems that include remote NVRs over a slower connection (Internet and similar), performing a remote upgrade on those NVRs may fail. In such cases, upgrading the NVRs will need to be done locally on the unit. This will be corrected in a future version.

Playback via Gateway
In rare cases where recording on ViconNet has very large gaps (days), it may not playback correctly in Valerus via the Valerus-ViconNet Gateway. The video can still be played back in ViconNet. This issue will be corrected in the future release.

Camera Credentials Error
In some cameras, adding them to the system with the wrong credentials will result in a message "Device Error" instead of "Unauthorized." This occurs when cameras do not reply correctly.

V960 Series Camera Time
Adding V960 series cameras to Valerus requires that their time is set (not the 2007 default) or the addition will fail.

Digital Input on V960 Series Cameras
The digital input from these cameras is not seen by Valerus.

Sync Playback from Valerus and Gateway
When playing back cameras from both the Valerus-ViconNet Gateway and directly connected cameras, the sync of playback will work only on lower speeds (X2, X4).

Web Page Refresh
On rare occasions where the web page did not properly show changes, a refresh is needed (refresh button or F5). Such a refresh may be needed after making changes to view to allow them to show on the Resources list, when adding an Internet Gateway and also when setting up IPV6 to apply the filter.

IQeye Cameras Alternate Stream
When using IQeye cameras, it is required to disable their multicast stream to allow Valerus to pull an alternate stream from the camera in case of NVR failure.

Switching Tabs during Museum Search
Occasionally, while running a Museum Search, if the user switches to another tab and then comes back to the search, there will be no results shown. It is recommended to allow the search to complete before switching tabs.

Thumbnail Image
In Thumbnail and Museum Search, an image sometimes does not get loaded properly and will show a black tile. The search can be rerun at that time.

Statistics Latest Recording Time
In case of Event recording, latest recording time will always show EVENT instead of the actual latest recording time.

Video Stream Display
Rarely, on camera switches, the video in that tile will stop and will require a page refresh to recover.

Audio Timeline
When dragging a microphone, the audio window will sometimes open without the timeline at the bottom. Closing and reopening will fix it.

Video and Audio Sync
Live and playback of video and audio together will not be completely synchronized.

Behavior on Playback Loss
When playing back video, if the source for playback (NVR) disconnects, the video freezes. In the future the message r "Playback Loss" will display

Behavior on License Error

When attempting to log in during a license error (expiration or other), a user without Configuration authorization will just see a spinning circle. A user with Configuration authorization must log in to get to the license settings and correct it. In future versions appropriate messages will be added.

Video in 1FPS

If video is viewed at 1 frame per second, it will have a noticeable delay.

Specific Event Handling

Cameras that send an ON message for an event but do not send an OFF message will not properly generate alarms.

Multi-Monitor on Log In

When logging in and asking to restore the last state, the View tabs for the other monitors sometimes open in the main monitor and need to be moved over again.

VAX Integration Tab Stays Grayed Out

After upgrading Valerus, if you have a VAX integration, the VAX tab stays grayed out until you go into the Network Settings and reconfigure VAX.

Partner Event Resource Issue

If a partner event resource is dragged into a tile on the Monitoring page for a certain amount of time, when you clear all resources and then drag a camera into that same tile, the event resource you dragged in earlier still appears instead of the camera.

Bookmarking Video Issue

Bookmarking video when the video is paused does not reflect the correct time.

Edge Installer Upgrade Issue

If upgrading the Edge installer when a previous version is already installed, you must uninstall the older version and then reinstall the newer version. You will get an error if you try to just do an upgrade.

Overlay for Multiple Cameras

When the user selects multiple cameras which do not support Overlay, Valerus displays the "Overlays" on/off toggle button.

Availability

The Valerus 24.1 software is released to production.