

ViconNet, VMDC, WEB Version 8.1 (Build21)

General Description

Vicon is releasing ViconNet version 8.1 (Build 21) for all ViconNet based systems. This updated version includes new features and several fixes for problems reported from the field and test lab and improves overall system performance and stability. ViconNet 8.1 (Build 21) includes drivers 946.

This version is backwards compatible with ViconNet 4.x, 5.x, 6.x and 7.x. Important notes:

1. The installation/upgrade process may take a while (typically 5-8 minutes).
2. There is no separate installation of drivers included in this package.
3. This version is not compatible with Windows XP that was discontinued by Microsoft. For systems running Windows XP you may keep using the latest XP approved ViconNet 7.0.

Vicon Production

The new version of ViconNet will be provided to selected customers as part of a controlled release process and will then be put into mass production (March 2016) to be installed on any system going forward. The software for existing users will be made publicly available online.

Field Installation

The installation of ViconNet 8.1 as an upgrade to version 8.0 does not require a license. Installation on all former ViconNet versions require re-licensing of the software! Systems covered by Vicon's software enhancement program will receive the license for free. For systems not covered contact Vicon sales.

Users who wish to update their existing systems (Kollektors, NVRs and Workstations) may download the new installation from the Vicon website (Learn and Support - Software Downloads – ViconNet software) or order a CD/DVD/USB through the sales channel.

To upgrade from older ViconNet versions, including versions 5.6d and 6.x, use the full installation and follow the installation instructions; it maintains all system settings and configuration (if a lower version is being upgraded, it will require updating to a supported version prior to installing this version).

Users may choose to keep running with their current version if they feel comfortable with it after reading the solved issues list and establishing there are no advantages in this version.

As before, a system that has version 8.0 installed on any device should upgrade the Nucleus to version 8.1 even if some devices are still running an older version (best practice calls for the Nucleus to run the latest version).

Vicon Release Notes

New Features and Operational Changes

Improved NVR Recording Performance

ViconNet's recording engine now offers a significantly better specification to support a higher number of cameras per NVR machine (see new camera-to-NVR paper). This increase reduces the total number of NVRs required to handle recording in a system and improves the cost-per-channel factor. With this improvement, the following updates have been done:

Minimum Storage

The minimum storage requirements for a new ViconNet installation have been updated from 2GB free space to 20GB. This does not impact upgrades.

ZONE-24 NVR Update to ZONE-35

The ZONE-24 NVR is been updated with ViconNet 8.1 installation and becomes a ZONE-35. This is more than 1.5 times increase in this NVR capacity.

Removed 99 Channel Limitation

The limitation to a maximum number of 99 recorded channel has been removed. Where applicable (see new camera-to-NVR paper) more cameras can be recorded by the NVR. Vicon's best practice suggestion is to not exceed 120 camera per NVR.

Vicon Analytics (IQeye cameras) Bounding Boxes

This version now shows bounding boxes highlighting the object that generated an analytics event from the embedded Vicon analytics (formerly known as IQanalytics) engine on the IQeye camera. This feature requires a firmware update to the cameras (see camera's release notes). Bounding boxes are supported by all ViconNet clients as well as VMDC but not supported by the web and mobile viewers at this time.

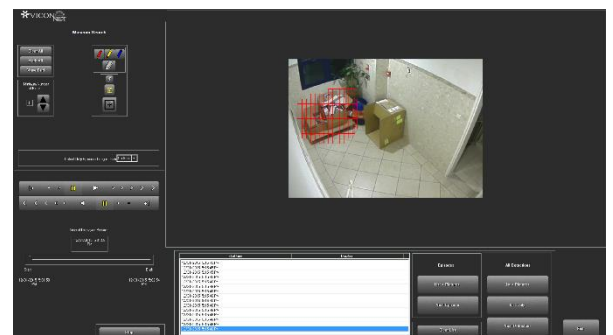


Museum Search Support with IQeye camera

The Museum Search feature in ViconNet, which up to now has only been working with ViconNet-based devices (Kollector DVR, ViconNet encoder and IP cameras), is now available with many current IQeye camera. This popular feature that allows post recording, ultra-fast search for changes in selected areas of the video requires a firmware update to the camera in addition to ViconNet 8.1 (see camera's release notes).

Important!

For museum search to work it is required to update the camera firmware (see camera release notes). If the cameras have already been used in ViconNet prior to the update, turn on museum search via their web interface.



Vicon Release Notes

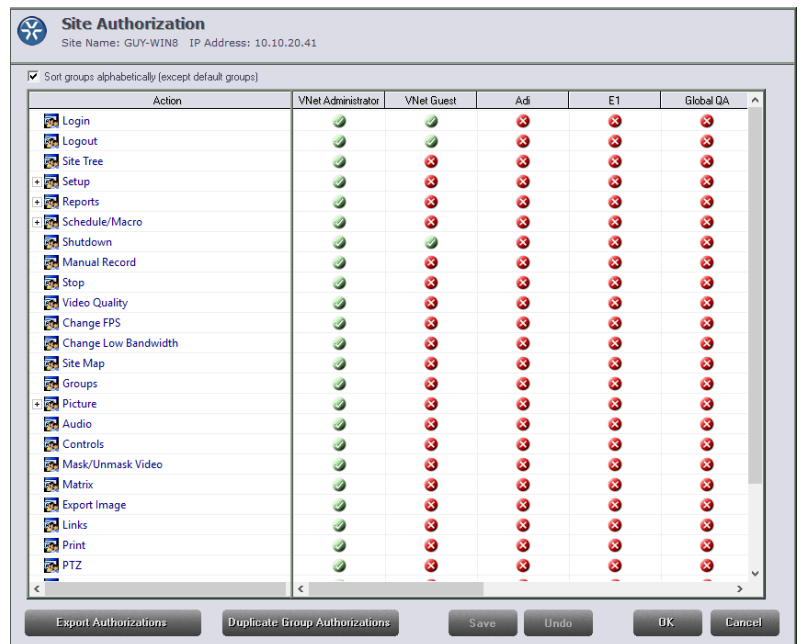
Support of New USB Keypad

ViconNet 8.1 supports the new keypad for ViconNet and VMDC. The VN-KEYPAD connects to the system using a USB cable, which is also its power source, and offers a modern keypad with 3 axis joystick and Jog/Shuttle playback controls.



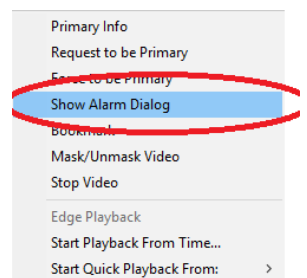
Sorting of User Group List

To allow a more logical order of the user groups when configuring their authorization, the Groups setup screen now offers an option to display in alphabetical order or in the order they were added in



Open Alarm Dialog

For users who want to be able to open the alarm dialog manually, instead of waiting for an alarm to pop-up on the screen, there is now an option to do so using the right click menu on the ViconNet main monitoring screen.



Support Arecont Multicast

This version supports multicast with Arecont cameras. This was primarily added in favor of the multi sensor cameras. An appropriate firmware needs to be installed on the camera (provided by Arecont).

Vicon Release Notes

Backup and Restore Settings Update

The settings backup and restore mechanism was updated to include camera groups and maps. The process was also enhanced to keep the current ViconNet license when settings are restored on the same physical PC.

Support ONVIF tampering event

Cameras reporting tampering event using the standard ONVIF protocol now can show the event in ViconNet

Changed Minimum size Database

The minimum available size required on a drive to allow recording on it is 20GB instead of 2GB before.

Solved Issues

Jumpy Video in Web Viewer

Corrected an issue where cameras viewed for a long period of time on the web viewer would start showing jumpy video.

ADAM-6050 Unit Reconnect

Added a function to the ADAM-6050 driver that in the case when it disconnects, it will attempt to periodically reconnect the unit.

Large Network Disconnect Issue

In a large system (1,000 cameras or higher), if the Nucleus is started while all cameras are offline (for example network down), it will no longer time out break.

Picture Blink on VMDC Switch

Fixed an issue on VMDC where a black frame would blink when camera was switched over another.

Archive Player Video Corruption

Archive player would show corrupted or black video if the user asked to authenticate frames prior to playback. If no authentication was requested the video was displayed well.

Known Issues

This version only fixes the issues listed above and is otherwise identical to ViconNet version 8.0.

Multicast Support with multiple NICs

Using Multicast in a computer with multiple enabled network cards sometimes causes video frames to drop, resulting in no video. Disabling the NIC not used by ViconNet resolves this.

Slower playback of 4K and higher video

When playing back video recorded at 4K resolution or higher, the playback may appear slower than real-time.

Very long clip export issues

In some cases, an attempt to export a very long clip of more than 10 hours will cause the application to restart. Best practice is to export shorter clips.

Wrong error message on bad clip export

When a video clip is exported to any disk that has no free space, the application shows a "success" message although the export did not succeed.

VMDC macro with more than 100 cameras fails

VMDC macro that contains more than 100 cameras will not run. This is simple to work around by splitting cameras into several macros.

Mask/Unmask on paused image

When video is played back and paused, an attempt to mask or unmask the image (based on the central masking feature) will not change the mask. The work around is to click on the next or previous frame buttons to refresh the image.



AVI clip playback on latest VLC

An AVI clip that is created from ViconNet does not display well on VLC media player version 2.0.X (it will play well on Microsoft media player).

Vicon Release Notes

Microphone icon on map

An activated microphone does not **bold** the icon on the map.

Export authorization to different product causes an error

Attempting to export user authorization from a V910 PoE camera to an H.264 encoder or HD PTZ will cause a crash. One should export authorization only to similar devices to avoid this at this time.

Web viewer video and audio simultaneous playback

Playing back audio and video simultaneously on the web viewer fails to sync, but each can be played back separately.

Picture setting changes to default

If the primary user of a camera from a Kollektor or encoder stops using the camera after making changes to its picture settings (such as brightness, color, etc.), the picture changes back to default even when someone else is watching them. If necessary, save as default settings can be used to maintain the changes.

V960 audio and video sync playback

When playing back a recording on ViconNet from a V960 camera with both video and audio in sync, the audio sometimes distorts; this does not harm the recording itself.

Wrong error message on controls screen

If a user tries to setup a control and selects a port already being used, the work error message that displays is "This screen has been idle for a long..."

High motion video export to MPEG-4

If an H.264 high motion video is exported to an MPEG-4 clip, pixilation appears in the clip. Use Xvid to avoid this.

V960 JPEG export issues

When attempting to export an image or a clip from a recording that was done in JPEG format from a V960 camera, the export fails frequently.

Wrong message for non-authorized 3rd party camera

If a 3rd party camera (or a Vicon open-standard camera) is not authorized for a certain user, the message when attempting to view it is "site not available" instead of "not authorized."

Museum search looks like it doesn't stop

When performing Museum Search for an episode, there is no message when the search ends and it looks like the search is frozen. Pressing the "stop search" button clears the issue.

Vicon Release Notes

Multiple disconnects of Arecont/Sony cameras will cause NVR to crash

If an Arecont or Sony camera being recorded by an NVR is repeatedly disconnecting and reconnecting to the network, the NVR might crash.

Playback control UI error

If a camera is played back and the user presses the x50 FF and then Pauses, the playback won't pause and playback buttons' functionality is broken (each button activates the one next to it).

Mobotix MXpeg thumbnail

When using Mobotix cameras with their proprietary MXpeg format, thumbnail search will show blank images.

Availability

The ViconNet 8.1 (Build xx) software is released to production on February 2016.