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GV-VMS Version History

**Version 17.3.0**

**Fixed:**

- Inflation of total CPU usage
- Chances of disconnection to GV-VMS on GV-ABL / ADR / AVD / TDR / TBL / TVD Series
- Prolonged or frozen reconnection with ONVIF devices, when disconnection occurred, caused by some ONVIF devices being disconnected beforehand
- Chances of frame rate drop on the Matrix of GV-Control Center when more than 32 channels from the same GV-VMS are displayed
- Chances for recording on motion detection to stop when the Watchdog is triggered to restart GV-VMS under narrowband networks
- Increased memory usage caused by certain ONVIF third-party cameras connected, e.g., Hikvision DS-2CD2020F-I, DS-2CD7270F-IZ, DS-2CD2332-I, and DS-2CD2132F-I
- Chances of image error on GV-Eye V2.7.1 when switching to the main stream of an IP device connected to GV-VMS

**Changed:**

- Motion detection by camera on Hikvision, Speco Technologies, Dahua Technology, and Northern Video Systems models not supported

**Version 17.2.1 2019-06-18**

**Improved:**

- Installation process of any program aborted when codec registration failed and “Cancel” was selected on the warning message
Version 17.2.0 2019-05-27

New:

- Display of the type of RTSP connection used in Camera Setup
- Support for saving and resuming of the progress of video backup on GV-Remote ViewLog V2
- Support for importing / exporting of host list on GV-Remote ViewLog V2
- Support for integrating of Address Book data from GV-Remote ViewLog V1 upon first-time starting of GV-Remote ViewLog V2
- Support for access for sub-stream recording on GV-Remote ViewLog V2 if the host recorded in dual streams
- Support for 64-channel playback on GV-Remote ViewLog V2
- Support for dewarping of GV-VR360 for both live and recorded images

Fixed:

- Chances of repeated disconnection of certain GV-IP devices or IP devices connected through ONVIF (Patch V17.1.0.2)
- Chances of oversize recordings when pre-record was enabled (Patch V17.1.0.3)
- Chances of I/O log of multiple GV-VMS not in sync when connected to the same I/O device(s) (Patch V17.1.0.3)
- Green lines appearing on the images of IP devices connected to GV-VMS when displayed on the matrix of GV-Control Center with a layout of 9 x 6 or above and a stream 2 resolution of 704 x 576 (V17.1.0.4)
- GPU decoding interference when LogMeIn Mirror Driver was installed on the same PC (Patch V17.1.0.6)
- Chances of account authentication failure when multiple GV-Edge Recording Server and/or GV-Remote ViewLog V1 / V2 are connecting to GV-VMS via GV-Authentication Server (Patch V17.1.0.7)
- Continuous inflation of RAM usage while using AAC audio codec (Patch V17.1.0.7)
- Inability to access images of IP devices connected to GV-VMS from GV-Notify and incorrect time display on GV-Cloud Center when Daylight Savings Time was applied (Patch V17.1.0.8)
- Chances of clearing all POS configuration settings when repeatedly opening and closing POS Device Setup interface on GV-VMS (Patch V17.1.0.9)
- Inability to access IP devices connected by ONVIF protocol via the following models of video management system (Patch V17.1.0.9):
  - HikVision DS-8816HQH-K8
  - HikVision DS-7616NI-I2/16P
  - HikVision DS-7216HUHI-K2
- Chances of inability to access stream 1 of IP devices connected to GV-VMS on GV-Edge Recording Manager and/or GV-Control Center after restarting CMSvr.exe [Control Center Server] (Patch V17.1.0.10)
- Chances of system failure when repeatedly drawing detection areas in Advanced Motion Detection Setup (Patch V17.1.0.11)
- Incorrect Keep Days value of GV-VMS displayed on GV-Vital Sign Monitor after recycling (Patch V17.1.0.11)
- Inability to input commands “change line” and “replace” simultaneously in POS Filter Setting (Patch V17.1.0.11)
- Chances of inability to access the PTZ controls of connected PTZ cameras after restarting GV-VMS and/or reconnecting the PTZ cameras (Patch V17.1.0.13)
- Inability to switch from stream 2 to stream 1 for IP devices connected to GV-VMS on GV-Eye (Patch V17.1.0.14)
- Chances of inability to display the audio timeline on ViewLog (Patch V17.1.0.15)
- Inability to resume recording of GV-VMS with NAS as its recording storage after the NAS storage was reconnected (Patch V17.1.0.15)
- Chances of misconfiguring Missing Object Detection resulting in misdetection (Patch V17.1.0.16)
- Inability to preserve the fisheye alignment settings of 3rd-party fisheye cameras after restarting GV-VMS or switching channels (Patch V17.1.0.16)
- Error to the matrix of GV-Control Center when using fisheye dewarp function for 3rd-party fisheye cameras connected to GV-VMS via ONVIF protocol (Patch V17.1.0.17)
- Chances of inability to save image alignment settings for fisheye cameras when the resolution was set to 2592 x 1944 (Patch V17.1.0.17)
- Inability to access and retrieve GV-VMS’s image alignment settings for 3rd-party fisheye cameras when using fisheye dewarping function on GV-Control Center (Patch V17.1.0.17)
- Inability to play back recordings backed up from GV-VMS with EZViewLog on PCs without any GV-Software installed (Patch V17.1.0.17)
- Chances of inability to restore the live view of IP devices connected to GV-VMS on GV-Eye after reconnecting (Patch V17.1.0.18)
- Chances of inability to connect to GV-LPR plugin after Windows on which GV-VMS is installed was improperly shut down (Patch V17.1.0.21)
- Mismatched timeline on backed up recordings when DST was applied
- Inability to display the captured snapshots of Object Index when it was set as Video Snapshot
- Inability to switch back to Live View on GV-VMS with the Launches ViewLog key of the connected GV-Keyboard V3 after switching to ViewLog
- The delete video function on GV-Remote ViewLog V2 not grayed out when accessing GV-SNVR recordings
- Time periods with motion-triggered recordings, set by IPCVA and processed by the device, displayed as blue in the ViewLog timeline
- Inability to play back recordings of GV-SNVR1611 using GV-Remote ViewLog V1 / V2
- Misplacement of the connection schedule between GV-Center V2 / GV-Dispatch server and GV-VMS
- Chances of black screen image display of connected GV-FER5700 when using Digital Object Tracking with a Windows resolution of lower than 1920 x 1080
- Abnormal Timeline display when the assigned directory under which the recordings and/or camera database were saved had a folder with Chinese name
- Displaying “disconnected” for IP devices beyond 32nd channel on WebCam even when they were successfully connected
- Abnormal image display of connected GV-FER5701 when fisheye dewarping was enabled
- Black screen display after system reboot when using GV-Desktop
- Disparity of CPU usage display in Windows as compared to the actual usage
- Inability to configure the camera settings of certain IP devices, through both Camera Setup and GV-IP Device Utility on Windows 10
- Mismatched displaying of the timeline upon double-clicking POS events within Advanced Log when Daylight Savings Time was applied

**Improved:**

- GV-S/W License verification restructured in enhancing license security and response time (Patch V17.1.0.19)
- Adjustable size for playback preview
- Ability to disable auto-zoom during Tracking of GV-PPTZ cameras
- Virtual memory allocation refined

**Changed:**

- Removal of Human Detection function
- Disabling Windows hibernation upon system startup
- Rearrangement of Video Settings UI for certain GV-IP devices
**Version 17.1.0.100 2018-09-04**

**New:**

- Support for new GV-IP devices (Patch V17.1.0.012)
  - GV-ABL2702 / ABL8712
  - GV-AVD2700 / AVD8710
  - GV-EBD8711
  - GV-SD2301 V2 / GV-SD2411 V2

**Improved:**

- Compliance with the European Union's General Data Protection Regulations (GDPR) (Patch V17.1.0.002)

**Fixed:**

- System behaving abnormally after manually adding the upgraded GV-BX2600 firmware version V101_1080321 on IP Device Setup (Patch V17.1.0.010)
- Random failure to receive camera image when multiple GV-Edge Recording Managers are connected to GV-VMS simultaneously after the Use Sub Stream FIFO function is enabled on CMS Server (Patch V17.1.0.001)
- Camera connection failure if over 64 channels are connected through RTSP protocol simultaneously (Patch V17.1.0.003)
- Chinese I/O names of GV-IO Box 4E appearing gibberish on the Content List of GV-VMS traditional Chinese language version (Patch V17.1.0.007)
- Repeated watchdog errors upon the system reboot after Wide Angle is selected from Camera Lens settings (Patch V17.1.0.010)
- Blurry image display of a camera when it is switched from a multi-channel division to single-channel division, changed to single stream or has Focus View enabled, after selecting Wide Angle from Camera Lens settings (Patch V17.1.0.010)
- Blurry image display if the camera channel is opened in the Advanced Motion Detection dialog box under the multi-channel division and then switched to a single-channel division (Patch V17.1.0.010)
- Inability to switch to sub stream after the camera channel is opened in the Advanced Motion Detection dialog box under the single-channel division (Patch V17.1.0.010)
• Failure to record motion events after the motion recording function becomes stagnant over a prolonged period of time (Patch V17.1.0.009)

• Inability to filter out “scene change” events through Event List Query on WebCam Server (Patch V17.1.0.008)

• Privacy Mask feature becoming inapplicable to recorded clips through WebCam Server on non-IE browsers (Patch V17.1.0.004)

• Inability to apply “clean time” and “transaction end dwell time” settings when setting up POS text overlay (Patch V17.1.0.011)

• Inability to display corresponding system logs on GV-Vital Sign Monitor when the camera is disconnected or re-connected (Patch V17.1.0.006)

• Connection failure after the camera message "IP Camera Firmware UNAUTHORIZED AND ILLEGAL INSTALLATION/USE!!" pops up (Patch V17.1.0.012)

• Chances of PTZ Control being disappeared from the Tools button on the live view of PTZ cameras
New:

- Support for GPU decoding on the 8th Generation Coffee Lake platform
- Support for free access to one external NVIDIA graphics card and chargeable uses of up to four additional graphics cards to dongle licenses
- Support for single and dual stream recording
- Support for AES Encryption
- Popup Window function to display camera live images, upon motion detection or input trigger, on a separate monitor
- Ability to create a camera group
- Scheduling network connections of WebCam Server, Mobile Service and GV-Edge Recording Manager
- Audio broadcasting to multiple cameras
- E-mail alerts for failed login attempts
- Simplified process of adding multiple channels of a 3rd party device through ONVIF / RTSP protocol
- Support for moving a PTZ camera to a preset using GV-Joystick V2
- Ability to customizing the database names to the Microsoft SQL Server
- Multicast feature to perform video broadcast
- Support for the facial recognition features of GV-VD8700
- Human Detection feature where motion detection events are triggered only by the motion of human objects
- Playing back object index function from Live View and ViewLog
- Improved user interface of Remote ViewLog
- Support for rendering E-maps to PDF
- 3-D E-Map display on Remote E-Map
- Support for TLS E-mail encryption
- New merging modes to export multiple recordings at once
- New IP Camera user interface guiding users to establish login credentials for cameras that have no default usernames and passwords
- Option ‘Use Substream FIFO’ added to CMS Server’s Settings for by-passing the sub stream without doing compressing to GV-Control Center
- Ability to enable or disable GPU Decoding function from the Startup Settings
- Windows users’ access permission to Remote ViewLog
- Multilingual E-mail alert messages
Fixed:

- Error message of “Decoder Open fail.” randomly popping up on the main screen when connected to IP devices
- Failure to keep the recording settings as Urgent Event and restore to the default General Event when the Watchdog program starts
- Connecting to GV-SD3732 causing repeated disconnection and re-connection of IP cameras
- Use of the Focus In/Out button on GV-Eye causing the cameras to lose focus
- Video delay of approximate 1-2 seconds after switching the camera’s video setting to main stream in Matrix View on GV-Control Center
- Image quality of some IP cameras being reduced when GV-Control Center is connecting to access those cameras with the same models and codec in the same Matrix View layout
- Inability to play back I/O events through the WebCam Server
- System failure caused by connecting to camera names exceeding 32 characters in length through ONVIF
- Inability to obtain the amended present names of PTZ cameras connected through ONVIF Protocol
- Some motion events not recorded and the monitoring status unchanged on live view upon motion detection
- Camera brand names switched to the amended device names of GV-EBL2702 / EDR2700 / EFD2700 when adding / searching those cameras on IP Device Setup
- Excessive connection resumption attempts with Sony SNC-EM632R and SNC-EM602R F/W 2.7.2
- Gibberish POS texts appeared when using Epson POS devices
- Snapshot function not responding when Fisheye dewarping is enabled on GV-VMS installed on Portuguese OS
- Message “error SMTP server no response” shown when testing if an E-mail notification can be sent
- Inability to connect Hacking Hi3518 through ONVIF protocol
- Live view of Hikvision DS-2CD23335FWD-I F/W V5.5.0 not shown on GV-VMS V16.11.0.0
- I/O status of GV-Center V2 not corresponding to that of I/O Device list on GV-VMS if the I/O devices are repeatedly enabled and disabled on GV-Center V2
- Timeline of recorded events displayed even after those events are manually deleted
- Missing events between 23:00 and 00:00 in the event list when retrieving recordings of more than 1 day from GV-SNVR using Remote ViewLog
- Rare chances of the Viewlog timeline appearing blank when Motion Detection and Auto Monitoring functions are enabled
- Inability to open backed up files saved in .exe format using the Save as Avi function
Rare chances of H.265 recorded images with a 2592 x 1520 resolution and at 20 fps displaying an approximate time of 1- to 3-second green images under multiple screen divisions

Inability to access recordings through the Remote Play Back function of its Web interface on non-IE browsers after being viewed using GV-Remote ViewLog

Amended camera names of backup video events not shown on EZViewlog500

Video playback jumped straight to frames with audio after rewinding and then playing back camera recordings

Event Types not recorded correctly and therefore cannot be recycled after connecting to the GV-Remote ViewLog service

Recorded events on timeline not displayed during playback if the playback limit time is set to 1 day and the logged-in user switches to a different playback time

Ghost images generated during motion events on multi-screen divisions if the compressed videos are displayed on the Matrix View of the connected GV-Control Center

Snapshots not attached before sending the e-mail alert notification

Ability to access WebCam Server using the same URL on a different computer without re-entering its login page

Image flashing green or gray on Matrix View of the connected GV-Control Center due to a declining transmission speed

Random issue with image freezing when playing back H.265 encoded video content

Improved:

GV-USB dongle detection and automatically installing the USB driver at the same time during the installation process

GV-VMS taking excessive connection time to access the IP camera’s live view under narrowband network environment

Ability to restore the previous 3D E-Map layer on the E-map window

New functions added to the License Activation Tool

- License upgrade through a registered Serial Key number
- Ability to add or delete IP cameras through the License Activation Tool
- Ability to reassign the registered license to another designated PC
- Software licensing activation available for cameras connected through RTSP protocol under the same LAN

Time interval between E-mail alerts changed from minutes to seconds

Improved user interface of the QView settings

Camera image updates when dragging the mouse on the recording timeline

RepairLog500.exe to fix damaged files without a system crash
• Color change on camera names of the Content List during video loss or disconnection
• Accelerated restoring and/or repairing of video data within GV-VMS’s database

**Changed:**

• Color change in the monitoring status of the cameras from VMS on the Live View and Matrix windows in GV-Control Center
• Recycle Threshold enlarged from a minimum of 5 GB to a maximum of 999 GB
**Version 16.11.0.0 2017-08-01**

**New:**

- Support for GPU decoding on the 7th Generation Kaby Lake platform
- Support for PLC I/O devices
- The implementation of a password strength meter
- The administrative ID and password required to launch Customize Menu on the GV-Desktop
- Camera name added to the IP Device Setup page
- Support for GV-2400 / 2800 series’ connecting setting when adding to GV-IP Decoder Box Plus using GV-IP Device Utility V8.7.0.0

**Fixed:**

- File size not shown on Remote ViewLog after connecting to the NAS server
- Only up to 30 playback event results shown on the non-IE browsers with the Event List Query function
- Some ONVIF cameras not detected on GV-IP Device Utility and GV-VMS
- GV-VMS unable to start if Daylight Saving Time ends on Saturday
- Black screen problem after GV-VMS is selected as Desktop Type from the GV-Desktop
- Main stream not switchable on the live view of GV-Control Center, GV-Edge Recording Manager and the matrix view of GV-Control Center after stopping all network servers from the user interface and then re-starting the GV-VMS
- Pixelated images on the live view and matrix view of GV-Control Center after repeatedly switching between main stream and sub stream when connecting to the GV-VMS
- New live image not refreshed when viewing live streaming at the WebCam Server on Chrome
- Avi files not saved properly due to blue screen shown at the start time when Time Merge is selected
Version 16.10.3.0 2017-04-28

New:

- Support for setting a limit on each channel's playback time in the ViewLog tab of Local Account
- Support for automatically assigning storages to multiple camera channels
- Support for smart streaming of GV-IP cameras
- Support for QView display which enables the projection of a live view display onto another monitor
- Support for recording storylines in live view, playback and Qview
- Support for push-to-talk on live view
- Option added to Text Overlay Setting to display GV-ASManager’s data and the license plate recognition (LPR) data on the camera screen
- Software license management support
- 3D E-Map display
- Point of Sale (POS) integration with up to 32 channels
- H.265 compression type added to AVI Repair Utility
- Automatic login with GV-PCR310 Enrollment Reader
- Support for local backup and remote backup with GV-Backup Center
- Support for GV-PPTZ7300 to automatically track moving objects under 360 degree view
- Support for GV-3D people counter
- Support for GV-Cloud Center
- User privilege control when connecting with mobile app GV-Eye

Improved:

- Double password function to execute Remote ViewLog
- ‘Apply All’ button added to the Address Book in Remote ViewLog to apply the same ID and password to all hosts
- Reduced database loading time when connecting to Remote ViewLog
- New information recorded in System Log: newly added, modified and deleted user accounts, adjustment of recording status, change of recording paths and missing / resuming disks
- E-mail notification support upon video resumption and removing the USB dongle
- Disconnection icon shown on E-Map upon video lost
• Support for changing the property of the view zone on E-Map
• Polygonal area setting for I/O icons on E-Map
• Support for connecting to hosts automatically when Bandwidth Control is started
• Improved backup mechanism with GV-Failover Server and GV-Redundant Server by detecting if the recording data has been written to the hard disk

Changed:

• The possibility that the live view of unspecific channels might be green screens if cameras get disconnected and connected frequently
• Support for simultaneously listening to audio of all the connected cameras
• Iris Open / Close option removed from the PTZ control panel for ONVIF PTZ cameras
• GV-TM0100's motion detection setting to be configured manually on the device
• The size of ViewLog’s Preview Window scaled to be proportional to the window size of GV-VMS
• Time range to search for log data changed from 7 to 5 days in Advanced Log Browser
• Removed support for GV-Skype Video Utility

Fixed:

• A change in the camera's image color before and after the PTZ control panel is enabled on the live view
• The camera names not updated on the timelines of all camera channels
• Failure to display event and device items in Advanced Log Browser if 7 days of log data are retrieved
• The issue where the Heat Map function is not turned off when selecting or unselecting Start Schedule Monitoring
• Problem with starting the WebCam Server if the camera name contains a double quotation mark
• Problem with starting GV-VMS after reboot upon restoring the system default using the Fast Backup and Restore (FBR) program
• Connection issue with the LPR Plugin when Control Center Service is not activated from GV-VMS
• Control Center Service's startup issue when the WebCam Server and Control Center Service are enabled on GV-VMS simultaneously
• Query failure in Backup Time due to a mismatch between the start and end times of a single recorded file
• The end time of the recording file exceeding default 5 minutes
• Possible E-mail alert failure in GV-Center V2 on the PC where previous version of GeoVision software has been updated
• Inability for Remote E-Map to connect to GV-VMS server
• Problem with unusual CPU usage when synchronizing Windows Active Directory accounts to GV-Authentication Server
• Failure of Camera Popup function if the GV-VMS has been restarted under the service mode
• Failure to call up the soft keyboard when logging onto GV-VMS on GV-Desktop
• Problem of Remote ViewLog to apply the first alignment setting to all fisheye cameras
• Inability for Remote ViewLog to play back recordings properly when the time zone settings of GV-VMS and GV-SNVR / NAS System are different
• Failure to access live view after connecting to American Dynamics ADCi400-D011 through ONVIF
• Abnormality of GV-VMS when connecting to Hikvision DS-2CD2342WD-I through ONVIF
• Inability for GV-SD Card Sync Utility V1.0.5.0 to backup recordings to GV-VMS
• Failure to retrieve the recordings in I/O log from backup recordings using the EZSysLog program
• Inability for Remote ViewLog to update new codec properly when connecting to GV-VMS