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GV-VMS Version History

Version 18.1.1 2020-03-17

Fixed:

- Inability to run GV-VMS on German operating system

Modified:

- Message requiring a paid software license displayed when the installation of GV-VMS is initialized

Version 18.1.0 2020-03-10

New:

- Requiring and authenticating a purchased license for upgrading to and running GV-VMS 18.1 (GV-VMS is a paid software requiring a purchased license starting from V18.1)
- Support for GV-Live Streaming for connecting to the built-in cameras of Android / iOS mobile devices
- Support for adding GV-IP Decoder Box, for assigning and remote displaying of connected IP devices
- Support for two-way audio for devices connected through ONVIF
- Support for AES encrypted video streams of GV-IP cameras except for the following models:
 - GV-IP Speed Dome series
 - GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series
 - GV-FD8700-FR / VD8700 / VR360
- Support for applying a set of login credentials, username and password, to all connected IP devices
- Support for auto-tracking of GV-SD2722-IR / 3732-IR through PTZ Control Panel
- Support for selective synchronization of recordings from the local storage of connected GV-IP and ONVIF (Profile G conformant) Cameras excluding the following, by channel, upon resume after temporary disconnection and highlighting the repaired recordings in yellow within ViewLog timeline:
 - GV-ABL / AVD / EBD / TBL / TDR / TVD series
- Support for adding copyright text to videos when exporting recordings
- Support for backing up recordings, to GV-Backup Center, excluding the latest number of days specified
- Support for POS Search for users to search for and play back the recordings of specific POS events
- Support for granting remote streaming of selected camera channels to WebCam Server and/or GV-Edge Recording Manager by schedule
- Support for connection to GV-Eye (V2.7) through GV-Relay QR-code scan
- Adding Report Generator tool for generating daily / weekly reports for GV-VMS events



- Support for remote live view and playback on non-IE browsers with JavaScript Decoder via WebCam Server
- PIP (Picture-in-Picture) function supported by Save as AVI (Patch V17.3.0.2)

Face Detection & Recognition

- Support for recording face detection events by GV-Face Detection (FD) Cameras and displaying live face index, in normal or censored mode, in Face List
- Support for streaming live view and recording face recognition events from GV-FR Server, as well as managing its face database with the built-in Face Manager
- Support for face enrollment of GV-Face Recognition Cameras / GV-FR Servers directly from the live view and/or recordings of any connected camera
- Support for batch face photo and access card data enrollment to connected GV-Face Recognition Cameras / GV-FR Servers via the built-in Face Manager
- Support for pairing face profiles of GV-Face Recognition Cameras / GV-FR Servers with access cards to be used on controllers for automated access control
- Support for selective face data synchronization, while displaying the face photos of the IDs to be synchronized, between two or more GV-Face Recognition Cameras / GV-FR Servers
- Face ID window displaying the face IDs of realtime face recognition events in different color codes, predefined by face groups, for instantaneous distinction
- Support for displaying the time of recognition events of GV-Face Recognition Cameras / GV-FR Servers on E-Map
- Support for face recognition event and Face ID search, of GV-Face Recognition Cameras / GV-FR Servers, as well as face detection event search of GV-Face Detection Cameras, by face photo
- Support for manually removing face recognition and face detection events of GV-Face Recognition Cameras / GV-FR Servers and GV-Face Detection Cameras, respectively
- Triggering computer alarms upon specific types of face recognition events of GV-Face Recognition Cameras / GV-FR Servers selected
- Sending alert notifications to GV-Notify app upon face recognition events
- Executing the desired .exe application upon specific types of face recognition events of GV-Face Recognition Cameras / GV-FR Servers selected
- Support for sending e-mail alerts to varying recipients for different types of face recognition events
- Support for unknown faces, unrecognizable events, from GV-Face Recognition Cameras / GV-FR Servers to trigger alert events

For GV-Remote E-Map

- Support for live camera controls, including snapshot, 2-way audio and PTZ, on 3D Remote E-Maps
- Support for "Building View" for 3D Remote E-Maps



Fixed:

- Inflation of total CPU usage
- Inability to run GV-VMS after Windows 10 is updated to V1803 or later with “Beta: Use Unicode UTF-8 for worldwide language support” within Region Settings enabled
- Inability to automatically apply the storage paths for recordings when upgrading from GV-DVR / NVR to GV-VMS
- Chances of inability to recycle events after prolonged loading of database due to oversized storage volume
- Chances of system not responding when attempting to access the settings of IP cameras with incorrect login credentials within IP Device Setup window
- Focus value of connected IP devices displayed on GV-IP Device Utility being stagnant and unable to reflect the changes of focus
- Inability for the supervisor accounts of GV-Authentication Server to access channels with proper access rights after adjusting the access rights of any channel for those supervisor accounts
- Chances of image and/or alignment error when connecting to fisheye cameras through ONVIF
- Inability to set and/or perform the Preset functions of certain 3rd-party cameras connected
- Inability to verify software licenses assigned to certain VIVOTEK and/or Arecont Vision cameras connected via SDK
- Chances of not displaying the camera names of channels as red on the live view upon input-triggered recording
- Inability to instantly play back recordings of channels other than channel 1 from GV-VMS live view
- Chances of time disparity to months not containing a 5th Sunday when daylight saving time was enabled
- Recordings exported in WMV9 and H.264 formats being inaudible when played with Windows Media Player
- Inability to display milliseconds on recordings during playback on GV-Remote ViewLog V2
- Inability to download recordings of GV-VMS on Web Viewer
- Inability to play back recordings on GV-Control Center and GV-Edge Recording Manager when accessing GV-VMS with passwords more than 128 characters long
- Inability to access the functions within License Activation Tool of GV-VMS through Remote Desktop of GV-Control Center
- Inability to send alert notifications to GV-Vital Sign Monitor upon disconnection, and the following reconnection, of connected IP devices
- Inability to display the Face Groups of face recognition events of connected GV-Face Recognition Cameras
- Inability to save and export the positions of fisheye dewarped images as configured with Save As AVI (Patch V17.3.0.1)
- Inability to play back the recordings backed up with Local Backup (Patch V17.3.0.1)
- Chances of live image lag from 8 MP GV-ABL / AVD / EBD / TBL / TVD series (Patch V17.3.0.4)
- Chances of delayed and discontinuous live images from GV-ABL / ADR / AVD / EBD / TBL / TDR / TVD series with a low bit rate setting under 1 Mbps on Windows 7 (Patch V17.3.0.4)
- Inconsistent status of GV-I/O Box displayed between remote applications and GV-VMS after which is restarted during an input trigger (Patch V17.3.0.5)
- Chances of I/O device icons not displayed on the Content List of GV-VMS after the PC is restarted (Patch V17.3.0.5)



- Chances of inability to switch to Main Stream on GV-Control Center and GV-WebCam Server after camera disconnections on GV-VMS (Patch V17.3.0.9)
- Audio malfunction on the recordings exported with H.264 or WMV9 video format playing with Media Player on Windows 10 version 1803 (Patch V17.3.0.9)
- Audio malfunction on certain 3rd-party IP devices (ISIS-MFD2100-3.2) connected through ONVIF (Patch V17.3.0.9)
- Inability to connect to the cameras of ACTi E59 and ChipER Technology CORP_CPT-MG53 through ONVIF (Patch V17.3.0.9)
- Chances of producing an oversized video file after recording over a prolonged period of time (Patch V17.3.0.9)
- Inability to display the images in Corridor mode on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Chances of broken images of 8 MP cameras on GV-Eye connecting to GV-VMS (Patch V17.3.0.9)
- Chances of inability to access Sub Stream on GV-Eye connecting to GV-VMS after which restarts several times (Patch V17.3.0.9)
- Chances of Object Index disabled when recording is triggered first by motion detection and then RTC recording set through schedule (Patch V17.3.0.10)
- Inability to disable input devices of GV-VMS from remote applications (Patch V17.3.0.10)
- Chances of live images disappeared, striped or two channels displaying the same images (Patch V17.3.0.11)

Improved:

- Displaying and requiring password strength to be “Normal” or above upon creating / changing login passwords
- Displaying “Video Not Updated” on the live view of camera channels that haven’t had new incoming video stream for 10 seconds or more
- Supporting the built-in motion detection function of 3rd-party cameras
- Repeated popping up of Popup windows during continuous trigger events
- Recording the details of which network parameter is invalid within system log when failing to connect to GV-IP Cameras
- Filtering of Object Index events, in ViewLog, by camera channel
- Displaying the face photo of recognized persons next to the event image in the Face Recognition query list
- Filtering of face recognition events of GV-Face Recognition Cameras / GV-FR Servers by groups, age and gender in Recognition Event query (age and gender only for GV-FR Servers)
- Enhanced audio quality for 2-way audio between GV-VMS V18.1 or later and GV-Center V2 V18.1 or later
- Enhanced video quality by enabling “Use Sub Stream FIFO” on CMS Server for simultaneous accessing of recordings by multiple GV-Control Center and/or GV-Edge Recording Manager from the same GV-VMS

For GV-Authentication Server

- Displaying and requiring password strength to be “Normal” or above upon creating / changing login passwords



Changed:

- GV-VMS V18.1 or later can only be installed on Windows 10 or above
- Moving “Enable Built-in Camera Motion Detection” to within Advanced Motion Detection Setup
- Limiting to 4 x 4 playback layout, by default, upon switching to ViewLog when there are 16 or more cameras of 8 MP and/or above connected
- Minimum value of “Interval of Motion Event” in System Log Settings changed to 3 seconds

Version 17.3.0 2019-09-17

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
- Chances of failure to Advanced Unattended Object Detection when recording is triggered by motion detection set through schedule
- Inability to execute WMPProof.exe of backup files
- Inability to verify software licenses assigned to IP devices with 2 or more MAC addresses
- Displaying garbled texts for Presets of GV-SD3732-IR that were named in Chinese
- Privacy Mask of recordings becoming dysfunctional when played back using 3rd-party video players
- Inability to automatically reconnect to single-streamed IP devices after disconnecting

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
- Chances of no bitrate occurring when GV-VMS is connected to four or more GV-Edge Recording Manager with “Use Substream FIFO” enabled
- Chances of inability to respond when connected to 3 or more GV-Face Recognition Cameras of firmware V1.01
- Inability to dewarp fisheye images as configured when accessing fisheye cameras connected to GV-VMS through GV-Remote ViewLog V1 / V2
- Time disparity when playing back dewarped recordings of fisheye cameras with daylight saving time enabled on GV-Remote ViewLog V1 / V2
- Inability to export dewarped recordings of fisheye cameras on GV-Remote ViewLog V1 / V2
- Inability to access the audio within the recordings of connected GV-SNVR0411 of firmware V2.61

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



Version 17.1 2018-05-22

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 Edit
- 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