# GANZ CORTROL Release Notes

GANZ CORTROL SOLUTIONS PLATFORM





# Release Notes v1.28.1

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## **IMPORTANT NOTES:**

Note 1: Product support policy change

We would like to inform you about an important Ganz CORTROL product support policy change.

Starting from January 1, 2024, Ganz CORTROL will no longer be supported for the following Microsoft operating systems: Windows 7, Windows 8, Windows Server 2008, and Windows Server 2012.

This decision comes as part of our ongoing efforts to streamline our services and focus on delivering the best possible experience to our users. As technology evolves, so do our responsibilities as a Ganz CORTROL provider, and we must allocate our resources where they are needed most.

# What does this mean for you?

- 1. End of Technical Support: After December 31, 2023, we will no longer offer technical support or assistance for Ganz CORTROL running on Windows 7, 8, 8.1, Server 2008, and Server 2012 versions of Microsoft Windows operating systems. This includes troubleshooting, updates, and bug fixes.
- 2. No Compatibility Updates: No further updates or patches will be designed specifically for Windows 7, 8, 8.1, Server 2008, and Server 2012 Windows operating systems. Any future Ganz product development, enhancements, or security updates will no longer be available on Microsoft Windows 7, 8, 8.1, Server 2008, and Server 2012.

We understand that transitioning away from the legacy versions of Microsoft Windows may require some adjustments. We recommend upgrading to a more recent version of Windows to continue to receive the latest features of the Ganz CORTROL VMS.

If you have any concerns or require assistance with your transition, please do not hesitate to reach out to our support team at support@cbcamerica.com.

Thank you for your understanding and cooperation. Sincerely, the Ganz CORTROL Support team.

# Note 2: CORTROL Installation and compatibility

- CORTROL Premier/Global version 1.3.x, and newer allows upgrading of prior installations
- Premier, Global, Recorder: "NOT" backward compatible with older installations
- Management Console: Not compatible with older versions of the CORTROL Server
- Client compatible with latest version and older versions of Premier, Global, Recorder
- CORTROL Prime is no longer available as part of the CORTROL Premier suite as of release 1.22.x \*\*\*
  - $\circ \quad \textit{The customer will lose access to their prior installation of Prime if CORTROL is upgraded to version 1.22.x.}$
  - o Prime version 1.21.x users may continue using indefinitely unless they choose to upgrade to CORTROL v1.22.x
  - CORTROL Primer reinstallation and reactivation will not work, due to changes in the licensing portal.





# CORTROL 1.28.1 - Maintenance version - August 19,2024

## New features:

N/A

### Improvements:

- Improved data processing for Data sources for scenarios with big gaps between the data frames
- Improved automatic device discovery for i-PRO NVRs
- Improved pan-tilt speed settings for HikVision DS-2DE4220IW-D camera
- Added an option in the Vaxtor plugin configuration to allow choosing timestamp source for camera-side analytics detections
- Enabled the Portable Player to play back the native archive when the index files are marked as read-only

# New Device Support:

• Mobotix Mx-VM1A-20-IR-VA model

#### Fixes:

- Replication does not work correctly when using profiles with a frame rate limit
- Events for MQTT clients without an assigned server are not shown in E&A configurator for any server
- Fixed the empty list of shared layouts when trying to assign a layout to map marker in the Console application
- Fixed saving of the state of the 'Please don't show this again' checkbox in Console
- Fixed the RTSP server link when adding cameras for Camio in CORTROL

# CORTROL 1.28.0 - Major release version - July 01, 2024

# New features:

- Audit event when data is skipped when replicating
- Cloud connector service (Easy connect to remote Premier servers, BETA)
- Continuous playback for the Smart Search mode in the Client application
- Crosslink tab grouping in the Client application (based on Visual groups)
- Invert selection to the tables in Console (Ctrl+I)
- New events for the Gallagher access control
- New map marker: 2D zones, with an option to bind them to user buttons and indicators
- Numeric field next to the motion detector sensitivity slider
- Option to choose view source (view by server) in Console's Audit
- Option to define resource tree icons for Visual Groups, Crosslinks, Channels, and User Buttons
- Option to export/import custom ONVIF events
- Option to set the replication offset when creating a replication channel
- · Point-to-click PTZ for devices that support it
- Search for the Client application settings
- Support for the Axis LPR plugin (version 2.9)
- Support for the Kantech "EntraPass" Access Control System
- Support for the Vaxtor LPR for Mobotix MOVE, Vivotek, and Hanwha devices
- Video clip sharing via link (*Cloud service for Premier, BETA*)
- Window popups for "CrossLinks" (controlled via Console)

- PTZ improvements for Onvif driver (IDIS, Bosch, Hanwha cameras)
- Setting in the Client application to control how long "Snackbar" notifications are displayed
- Improved Alarm pane icon visualization, its tabs' resizing, and maintaining persistent state
- Allowed download for \*.n3r, \*.n3a file extensions via CrossLinks





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- Internal logic when the Client unsubscribes from live streams on heavily loaded systems
- Optimized web client performance on large systems with a lot of requests
- Improved h.265 streaming in Chrome for web client
- Streaming server (Web client, HTTP API) optimization for large installations (more than 10k channels)
- For new installations, the 'Detailed archive access audit' option will be enabled by default
- E&A action 'Send event to client' can now work locally on the Recording server
  - o If the Client application is connected to the Recording server directly
- Allowed browsing Visual groups in the Console
- Migrated to 32x32px map icons
- Localization updates for Czech, German, Spanish, Indonesian, Malay, Dutch, Japanese and Polish languages

# New device support:

- i-PRO (Panasonic): WV-X22500-V3L, WV-X22700-V2L, WV-X25700-V2LN, WV-X15700-V2L, WV-X15700-V2LN, WV-X22600-V2L, WV-X22600-V2L, WV-X25600-V2LN, WV-X15600-V2L, WV-X15600-V2LN, WV-X15600-V2LN, WV-X22300-V3L, WV-X25300-V3LN, WV-X15300-V3L, WV-X15300-V3LN models and WJ-NU300 Series, WJ-NV300 Series, WJ-NX310 Series, WJ-NX310 Series, WJ-NU301 Series, WJ-NU300 Series, WJ-NU201 Series, WJ-NU101 Series, WJ-NX300 Series, WJ-NX400 Series
- Hanwha: QNO-8080R, QND-8080R, QNV-8080R, QND-8010R, QND-8011R, QND-8020R, QND-8030R, QNV-8010R, QNV-8011R, QNV-8020R, QNV-8030R, QNO-8010R, QNO-8020R, QNO-8030R, ANO-L7012R, ANO-L7022R, ANV-L7012R, ANV-L7022R, LNV-6012R, PNO-A6081R models
- Milesight: MS-C5372-FPE, TS2966-X12TVPE, MS-C5361-X12PE models
- **Vivotek:** IB9387-LPR-v2-W model
- IDIS: DC-S6881HRX model

### Fixes:

- Error that may appear in Case export when the user case contains a mix of video + audio channels and video-only channels
- G.711 audio doesn't work in the native Bosch AUTODOME IP dynamic HD driver
- Mobotix FFLPR plugin confidence level issue in Console and Serbian (Latin, Serbia) regional settings
- When the number of messages in the ONVIF custom events picker becomes more than 10000
  - o This may cause the UI to freeze

# CORTROL 1.27.0 - Major release version - March 20, 2024

## New features:

- Client: Auto layout selection for the selected visual group
- Client: Onscreen Snack bar style alert notifications
- Console: Channels User defined events based on generic ONVIF message types
- Console: RTSP Server Stream independent video channels
- Console: Smart replication Event based video stream replication Global Required
- Console: View modifier "Structured View" hides group associated items
- Console: Visual alert notification Change the color of a visual overlay
- Events & Actions: Generic Modbus TCP event
- Events & Actions: Generic Modbus TCP action
- Events & Actions: i-PRO Active Guard OSS LPR and Vehicle event

- Client: Channel / Map send to a second monitor via a keyboard shortcut
- Client: Live tab Visual difference in channel types, passive, offline, and online
- Console: Server Audit Server event, system clock is changed
- Console: Counters Software counter reset based on predefined values
- Console: Counters Software counter reset based on deleting count data
- Console: Email Consolidated modular email operations into a dedicated internal service





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- Console: Maps icons New Perimeter Security icon set
- Console: Monitoring External user groups for AD/LDAP group status
- Console: Monitoring Mail servers server status
- Console: Watchdog monitoring the streaming server to ensure stable operation
- Console: Webpages renamed to CrossLinks
- Localization updates: Czech, German, Spanish, Indonesian, Malay, Latvian, Dutch, Japanese, Polish and Russian

# Under the hood improvements:

- Archive Recorder improvements for more efficient cyclic recording
- Client: Advanced audio mixing smoothly combines multiple audio sources
- Client: Improved audio quality for both live and playback
- Discontinued Support for Windows 7, 8, 8.1, Windows Server 2008, and Windows Server 2012
- Global Server: Asynchronous method invocation to improve unstable, low-bandwidth connections for remote servers
- Motion detection automatically switch to another stream if there are no keyframes for N seconds
- PTZ improvements for the Hikvision driver
- Large installations: Performance optimizations for larger installs
  - o Archive stream request and update optimization
  - Shared layout deserialization optimization
  - o Console startup speedup
  - o Reduced server shutdown time

## New Device Support:

- i-PRO WV-S32302-F2L, WV-X15700-V2L, WV-S32402-F2L, WV-U31401-F2L
- Dahua DH-SD5A432GB-HNR, DH-SD65F230F-HNI, DH-SD5A225XA-HNR
- Grundig GD-CI-AP4747P and GD-CI-AP4647P

### Fixes:

- Client lock up: Pop up Alert window during an opened window Active Guard event playback
- The schedules may trigger incorrectly due to frequent configuration changes
- Unable to receive Sub stream using ONVIF driver from Milesight NC8274-PA camera
- Unable to receive Edge stream using ONVIF driver via non-RTSP port
- Sorting by resolution does not work in the Monitoring section
- Fixed recent archive interval limitation

# CORTROL 1.26.1 - Maintenance version - December 15, 2023

# New features:

• N/A

## Improvements:

- Alarm pane: Multi-tab optimization
- Client Live: Reworked sequential entry of multi-digit PTZ presets
- i-PRO (Panasonic) WV-CU98 CCTV keyboard: Improved zoom and focus control
- LDAP: Optimized database operation when a single AD user belongs to two or more groups
- Video archive export: Improved audio support

## New Device Support:

• i-PRO (Panasonic) WV-S1536LNA, WV-S2536LA, WV-S15500-V3LN, WV-S25500-V3LN

### Fixes:

• Portable Player: Unable to play back h265 stream exported as MKV + Original compression





- Bosch: Native driver edge recording
- Dahua: Native driver edge recording
- UDP: Native driver edge recording
- Hikvision: Native driver edge recording
- ONVIF driver: Partially broken edge recording
- Client export: Export of time series query results in CSV/XLS/PDF when there are null fields

# CORTROL 1.26.0 - Major version - December 07, 2023

#### New features:

- Access Control Integration: Inner Range Integriti access control system
- CrossLink Basic (Webpages): Display the webpage in a separate tab
- CrossLink Basic (Webpages): File download (video, JPG, PDF, and CSV)
- Events & Actions Action: Enable/Disable Device channel Video Analytics
- i-PRO Active Guard Plugin: Integration for server events with watchlists
- OSD Watermark: User ID watermark over live video and playback
- Schedule based user and user group resource access control
- Visual elements Map: Clone function to copy and paste visual elements (markers)

### Improvements:

- Alarm pane multi-tab optimization
- Minor visual updates
- Languages: localization updates for Czech, German, Spanish, Indonesian, Malay, Chinese, Latvian, Dutch and Russian

# New Device Support:

- Axis: Q3536-LVE
- i-PRO: WV-S66700-Z3L
- Wavesys: IP-30201LDI, IP-10201LDI, IP-30203LDO, IP-30301LDO, IP-10301LDO, IP-30303LDO, IP-30501LDO
  - IP-30503LDO, IP-30201LBO, IP-30203LBO, IP-10201LBI, IP-30203LBO-V650, IP-30301LBO, IP-30303LBO
  - IP-30303LBO-V650, IP-10301LBO, IP-30501LBO, IP-30503LBO, IP-30203LPT, IP-30303LD04
  - IP-30303LD02, IP-30501LF0, IP-30301LF0, IP-30301DF0, IP-2T001B0-T35, IP-2T101B0-T56
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  - IP-50301FUO, IP-10503WBOX, IP-10403LPT, IP-10203PTZ, IP-10203LPT, IP-10203, IP-10403, IP-10503BOX

#### Fixes:

- Client: Error when exporting video clip from grid mode
- Client: Removed artifacting in live video feed when using multicast mode
- Console Event Schedule: May work incorrectly when custom days are used
- New Bosch models (AUTODOME, FLEXIDOME, TINYON) H265 stream parsing
- ONVIF settings: Creating multiple devices 'Use legacy authentication' was on by default (now off by default) Global
- Video wall: Unusable when the maximized viewport is sent as a layout to the video wall screen
- Video export: Restored export for MxPEG codec with original compression

# CORTROL 1.25.0 - Major version - Sept 29, 2023

# New features:

- Client: Case Export video of multiple channels with custom time ranges
- Client: i-PRO Active Guard OSS Plugin integration
- Client: Multi Server grouping in Connections





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- Console: Anonymous user Membership, Resources tabs
- Console: Maps Camera marker and indicator status binding
- Console: Security Policy: Disconnect user when disabled, PW change, expired, or OAuth token reset
- Console: Storage Detailed "Time from / Time to" Archive access audit
- Console: User account Activation / Expiration per a specified date and time
- Console: Visual shortcuts Link functionality and shape
- Localization: Japanese

### Improvements:

- Client: Advanced windows settings Popups supported when connected to a recording server (Global edition)
- Client: Recording server direct connection locally saved shared layouts (Global edition)
- Client: Sound Support for mp3 audio format
- Console: Audit/Problems Configuration loading, Disk Excluding, Recording, Watchdog messages
- Console: Channel video overlays Counters advanced options
- Console: Channel video overlays Shortcuts advanced options
- Console: GSM modem settings added to the configuration database
- Console: Monitoring CVA status (detection rate, detection time, the total number of detections made, etc.)
- Console: System upgrade New Hotfix task and HTTPS support
- Improved integration for i-PRO (Panasonic) WV-CU980 CCTV keyboard
- NEDAP AEOS update to support version 2023.x

# New Device Support:

- Dahua DH-IPC-EBW81242N-AS-S2, DHI-TPC-DF1241-T and DH-VCS-SH30
- Hanwha XNF-9010RV
- Milesight TS2866-X4TPC

### Fixes:

- Exported videos with gaps larger than 5 seconds may fail when soft subtitles are enabled
- Event schedules: Failed if day starts from an inactive profile and previous day ends with an active one
- i-Pro Active Guard: Preferences value did not save
- Recording configuration: Created by the user, cannot be deleted
- Some CORTROL 1.24.0 (AVI + IPEG) exported files do not open in the Portable Player

# CORTROL 1.24.0 - Major version - July 18, 2023

### New features:

- Client: i-PRO Active Guard OSS Plugin integration
- Client: Support HTTP based API commands
- Client: Two-way audio Dahua IPC-HDBW5242R-ASE-MF and Hikvision DS-2CD2126G2-ISU
- Client: Viewport timestamp customization
- Client: Visual Shortcuts in Playback mode
- Console: Audit log problems section to filter issues
- Console: Channel Passive mode Pause communications and video streaming until requested
- Console: Channels > Channel configuration > image properties; added new properties settings
- Console: Cybersecurity report Show active issues w/export to CSV file
- Console: Mail server configuration test button "Send test email notification page to an email recipient"
- Console/Client: Customer Identity and Access Management via OAuth 2.0
- Console: Recording schedule Custom Calendars and Custom Days
- Console: Server Switching Alternative CORTROL Server login switch (Premier/Global Servers supported)
- Events & Actions: HTTP API Channel event driven by an external 3<sup>rd</sup> party system event





Events &Actions: Actions Insert Field - UNIX Epoch time macro

# Improvements:

- Client Administration tool: Clear cookies upon Client application exit (Regarding Crosslink webpages)
- Client: Data channel visualization Highlight new lines
- Console: Audit log An unknown event ID attempting to trigger an external event
- Console: Devices using "Legacy ONVIF driver" have video configuration options set to read-only mode
- Console: 'Secure connection' option available when "Creating multiple devices" within the Global Edition
- Console: Map icons added function to change icon edge/boarder color
- Console: Monitor added a "Data sources section"
- Console: Monitor "Channels section" added "Active recording profiles" function per selected channel
- Console: Monitor "Archive Statistics section" added 'Server' column
- Problem Report Wizard: Save "Problem Report" to local hard drive
- Localization updates for Czech, Chinese, Spanish, Dutch, Polish, Latvian, Russian, and Turkish languages
- Large-scale Global systems: Console performance
- Large-scale Global systems: Extensive performance and synchronization improvements
  - o Reduced number of readings from the configuration database when synchronizing user account info
  - Video Export: Optimized procedures

# Support for new devices:

- i-PRO (Panasonic) WV-X86530-Z2, WV-X86531-Z2 and WV-S85402-V2L
- i-PRO (Panasonic) WV-CU98 CCTV keyboard
- Dahua DH-IPC-HUM8531M-V-LED
- Teltonika RUTX50
- Zenitel TCIV-3+

### Fixes:

• The Audio out icon for rapidly pressed scenarios

# CORTROL 1.23.1 Maintenance release – May 16, 2023

### New features:

- Input guard events for NEDAP AEOS access control
- Display for all channels on the map in playback mode

### Improvements:

- Single channel license for all i-PRO multi-lens IP cameras
- Aspect ratio settings for external services output results
- 'Add bookmark' keyboard shortcut in command mapping settings
- Meta data support for External Service Tab in static grid view pictures
- Snapshot export in PDF format display time in local zone instead of the UTC

## New Device Support:

- i-PRO (Panasonic) WV-X86530-Z2 and WV-X86531-Z2
- Mobotix 3 lens cameras: P7 Series and Mx6 Series
- Hikvision iDS-2CD7A46G0/P-IZHSY

### Fixes:

- Timeline disappears when time series database event's start and end time are the same
- Additional audio and VCA permissions are no longer needed for user to manage external services





- Uniview audio stream recording while the audio source is not enabled in Console
- Portable player does not accept the password from the encrypted archive
- Edge recording for Vivotek FD9369

# CORTROL 1.23.0 Major release – March 02, 2023

### New features:

- Access Control: NEDAP AEOS
- Client Administration Tool: Alarm tab restrictions
- Client/Live: Data channel textual visualization
- Client/Data Sources: Textual data queries
- Console/Data Channels: Textual data visualization channel
- Console/Data Sources: Multi-purpose time series databases
- Language localization: Spanish (Spain) and Chinese (Simplified)
- User accounts: Option to disable on a specific date and time

## Improvements:

- Client: Alarm tab Compact header
- Client: Alarm tab 'Hidden' status for bookmarks
- Client: Alarm tab Bulk edit multiple alarms (Status and severity)
- Client: CrossLink Basic webpages H.264 codec support
- Client: Customizable colors for the Video Analytics object classes
- Client: External Service Tabs for FR, LPR support for grid view
- Maps/Markers: CrossLink Basic webpages
- Maps/Markers: Grid arrangement option
- Server performance on large scale configurations
- Language localization: Ukrainian, Czech, Russian, Dutch, Indonesian, Malay, Chinese (Traditional), and Latvian

## New Device Support:

- i-PRO (Panasonic) WV-S65302-Z2
- Hikvision DS-2SE7C432MW-AEB

#### Fixes:

- Client: Selection for startup layouts or sequences
- Client/Reports: Software counter name does not change, if changed in the console
- CORTROL server: Reboots when the streaming server is used intensively
- EDGE recording: Axis P3227-LVE camera
- RTSP port changing: CBC (Ganz) ZNP-B5M212DP camera
- Web Client: Playback of the archive when the recording server is replaced by failover (Global Failover Server)

# CORTROL 1.22.1 Maintenance release – Dec. 19, 2022

#### New features:

- Serbian (Cyrillic, Serbia) localization
- Authorize external/LDAP users using Win32 Logon User call
  - o (Applied to foreign security principals when user domain is not accessible from the server directly)

### Improvements:

• Client: Responsiveness of a combo box with a lot of elements





- Client: Startup time on systems without internet access
- Leica BLK device: Implemented 2.0 firmware version support
- MQTT client compatibility with HiveMQ Cloud broker
- Removed outlines for marker icons and text on the maps
- Regex matching for MQTT client and GSM modem events
- Support of 'Scene Change Detection' feature to new Panasonic/i-PRO devices

# **New Device Support:**

- Grundig: GD-CI-BT4747P, GD-CI-AT4537VH, GD-CI-AT4537TH, GD-CI-BP8637V, GD-CI-BP8637T, GD-CI-AP4617V
- **GXiServer** Video Analytics 96,128,160,192,224 and 256 channel devices
- VCACore Video Analytics 96,128,160,192,224 and 256 channel devices

## Fixes:

- Analog devices: External PTZ control settings
- CBC (Ganz) ZNP-B5M212DP model AI stream recording
- Client: Checkbox 'Pop up message box upon server disconnect' may disappear after restart
- Tanz cameras may not work as (Generic) ONVIF Compatible camera model
- Zone-specified events for Leica devices

# CORTROL 1.22.0 Major release – Oct. 21, 2022

### New features:

- Actions: Device Channel Disable / Enable / Toggle
- Added Indonesian localization
- Auxiliary device event: for non-video device events
- BLK247: VCA events for "Human" and "Non-Human"
- Client: Alarm pane filter tabs
- CVA (CORTROL Video Analytics): Detector 320×320
- GSM generic modems: Sending and receiving SMS notifications
- MQTT Client: MQTT protocol support
- Premier Suite no longer includes the CORTROL Prime edition
- Supplementary streams: Audio, Motion, VCA, and external Data streams
- SMS Support:
  - o Event: SMS Received
  - Action: Send SMS
  - o Two-factor authentication

- Client/Reports: Search and select all counters at once
- Client: Message box when server disconnects
- Channels: UniPing Server Solution DI/DO support
- CORTROL Video Analytics: Line-crossing event accuracy
- CORTROL Video Analytics: PPE detection engine updated to the latest version
- Login Console: Store different location connections
- Monitoring: Servers connection quality
- Monitoring: Storage column listing of last time storage was available
- Monitoring: Stream recording error when no frames were recorded
- Users: PTZ priority timeout configuration
- Geo map rendering
- SATEL integration: ARM/DISARM events and actions





- SMTP: Extended error descriptions in the Audit log
- SMTP: Add TLS 1.2 support

# **New Device Support:**

- i-PRO (Panasonic): WV-S8574L, WV-S8543L, WV-S8564L, WV-S8563L, WV-S8544L, W
  - WV-S8543, WV-S15700-V2L, WV-S22700-V2L, WV-S25700-V2L, WV-S15600-V2L, WV-S22600-V2L
  - o WV-S25600-V2L, WV-S15500-V3L, WV-S25500-V3L, WV-S25500-V3L, WV-S4176, WV-S4176J, WV-S4576LJ
  - WV-S4576LM, WV-S4156, WV-S4156I, WV-S4556LI, WV-S4556LM, WV-S1136, WV-S1536LI, WV-S1536LN
  - WV-S1536LTN, WV-S2136, WV-S2136L, WV-S2236L, WV-S2536LN, WV-S2536LTN
  - o WV-S2136-B, WV-S2136G, WV-S2136G-B, WV-S2136L-B, WV-S2136LBUX, WV-S2136LG, WV-S2136LG-B
  - WV-S2236L-B, WV-S2236LG, WV-S2236LG-B, WV-S1536LBUX, WV-S1536L-B, WV-S1536LN-B, WV-S2536LG
  - o WV-S2536LGN, WV-S7130UX, WV-S7130WUX, WV-B71300-F3, WV-B71300-F3-1, WV-B71300-F3W
  - o WV-B71300-F3W1, WV-X8571N, WV-S8531N, WV-X4173, WV-X4173J, WV-X4573LJ, WV-X4573LM
  - o WV-S4151, WV-S4151J, WV-S4551LJ, WV-S4551LM, WV-S1572LNJ, WV-S1572L, WV-S2572LNJ, WV-S2272L
  - O WV-X1571LNJ, WV-X1571LN, WV-X2571LNJ, WV-X2271L, WV-X1551LN, WV-X2251L, WV-X1534LNI
  - o WV-X2232LJ, WV-X5550LT, WV-U1134J, WV-U2134J, WV-U1133J, WV-U1533J, WV-U1114J, WV-U2114J
  - $\circ \quad \text{WV-U1113J, WV-U1132, WV-U1532L, WV-U2132L, WV-U2532L, WV-U1130, WV-U2130L, WV-U2530L} \\$
  - o WV-U1142, WV-U1542L, WV-U2142L, WV-U2542L, WV-U2140L, WV-U2540L, WV-U1134AJ, WV-U2134AJ
  - o WV-U1133AJ, WV-U1533AJ, WV-U1114AJ, WV-U2114AJ, WV-U1113AJ, WV-U1132A, WV-U1532LA
  - o WV-U2132LA, WV-U2532LA, WV-U1130A, WV-U2130LA, WV-U2530LA, WV-U1142A, WV-U1542LA
  - o WV-U2142LA, WV-U2542LA, WV-U2140LA, WV-U2540LA, WV-S1132, WV-S1131, WV-S1112, WV-S1111
  - o WV-S1111D, WV-S1130V, WV-S1130VRJ, WV-S1110V, WV-S1110VRJ, WV-S2531LN, WV-S2531LTN
  - o WV-S2231L, WV-S2131L, WV-S1531LN, WV-S1531LNI, WV-S1531LTN, WV-S1531LTNI, WV-S1531LNS
  - o WV-S1531LNSJ, WV-S2131, WV-S2130, WV-S2130RJ, WV-S1511LN, WV-S1511LNJ, WV-S2511LN
  - o WV-S2211L, WV-S2111L, WV-S1511LDN, WV-S2111LD, WV-S2110, WV-S2110I, WV-S2110RJ, WV-S1510
  - o WV-S3131L, WV-S3531L, WV-S3532LM, WV-S3130J, WV-S3530J, WV-S3111L, WV-S3511L, WV-S3512LM
  - WV-S3110J, WV-S3510J, WV-S2550L, WV-S2550LNJ, WV-S2250L, WV-S1550L, WV-S1550LNJ, WV-S2270L
  - WV-S1570L, WV-S1570LNJ, WV-S2570L, WV-S2570LNJ, WV-X6531N, WV-X6531NJ, WV-X6531NS
  - o WV-X6511N, WV-X6511NJ, WV-S6131, WV-S6111, WV-S6530N, WV-S6530NJ, WV-S6130, WV-S6530NS
  - WV-S6110, WV-X6533LN, WV-X6533LNJ, WV-S6532LN, WV-S6532LNJ, WV-S4550LM
  - o WV-S4150, WV-X4571LM, WV-X4571L, WV-X4171, WV-X4170, WV-X8570N, WV-S8530N, WV-V2530LK
  - WV-V1330LK, WV-V2530L1, WV-V1330L1, WV-V6430L, WV-V1170, WV-VCC100, WV-VCC100PI
  - WV-X8574L, WV-X4172, WV-S2572L, WV-S2552L, WV-X2551LN, WV-X2533LNI, BWC4000
- VCACore Video Analytics: 48 and 64-channel devices
- Axis: Q1700-LE ANPR camera
- Ganz: ZNT8-25BQVF7-B model
- Evidence Apix: Thermal Dome / BS 3.5/4 model
- Amcrest: IP4M-1041B model
- Foscam: FI9928P model

### Fixes:

- Action: 'Send HTTP request' may be triggered with considerable delay
- Motion detection error after upgrade from version 1.11.0 or prior to newer versions
- Recorder behavior during backward system time shifts
- Web client: Recording server archive access conflict when a failover server is online (Global edition)

# CORTROL 1.21.1 Maintenance release - July 18, 2022

### New features:

- Client: Set default substream mode choice (auto, force mainstream, force substream)
- Client: Set export of live alarms (from alarms pane) to XLS, PDF, or CSV





- Foreign Security Principals of trusted AD domains
- Support for the newest version of Mobotix LPR analytics (by FFgroup)

# Improvements:

- Client: Choice to set startup layout or sequence via context menu in layouts pane
- Client: Geo-map: GPS coordinates will be shown for all displayed cameras during playback
- Client: Layout sequence timeout is now extended upon user interaction
- Client: Temporary pause of the layout sequence while a viewport is maximized
- Client: Save and restore the Resources' panel width (layouts, channels, maps, etc.)
- Client: Export unified search results for Bookmarks, VCA, Smart Search, External services, and Data Sources
- Console: Allow ONVIF HTTPS connection to use TLS 1.2
- Language: Chinese localization update

# New Device Support:

- Ganz: ZN13-D2M312-IRWAS
- ONCAM: Evolution 5, Evolution 12, and Evolution 180
- Vivotek: FD9369, IB9369, FE9192-H, FE9191-H-v2, FE9391-EHV-v2, SD9368-EHL, SD9384-EHL, IP9165-HT-v2
  - o IP9165-LPC-v2, FE9382-EHV-v2, MD9582-H, MD9584-H

#### Fixes:

- Action 'activate sub-stream recording'
- Client: Axis M30 camera cannot decode the first frame
- Connection error for External audit if MySQL database is selected
- Edge recording unable to get from the ONVIF device through the global network
- Layouts are incorrectly overwritten under certain circumstances
- Multichannel archive export to separate files
- Sometimes remote device Autodiscovery cannot be completed if a connection was interrupted

# CORTROL 1.21.0 Major release - April 06, 2022

## New features:

- Client Login: Two-factor authentication (via email)
- Client: VP8 and JPEG-based exported video includes dewarped images and VA metadata overlay
- Console Channels: Zone settings object time for presence and absence, zone intersection by object threshold
- Console Login: Two-factor authentication (via email)
- Console: Cyber security dashboard
- Console: Internal tags and subjects (separate database)
- Console: 256-bit AES encryption for archive protection and client-server communication
- CORTROL Video Analytics (CVA): Dedicated database for analytics results history (external recognition results)
- CORTROL Video Analytics (CVA): Object Detector 1024x600, and Personal Protective Equipment
- CORTROL Video Analytics (CVA): Server support for NVIDIA GPU

- Client Bookmarks: Archive VCA search by 'value' in search criteria
- Client Bookmarks: CSV export includes comments
- Client Viewport: Rendering respects display scale factor (DPI) drawing timestamps, errors, and analytics metadata
- Console: Speedup startup on overloaded systems
- Console Audit: Events for user changed CVA settings (flags, configuration)
- Console Audit: Filters for search by user(-s) and server(-s)
- Console Audit: Disconnect reason to events: Recording Server Disconnected/Mirror Server Disconnected





# Release Notes v1.28.1

- Console Channels: CVA settings variable opacity to zones and counters
- Console Events & Actions: HTTPS option action "Send HTTP Request"
- Console Events & Actions: Insert field offers channel GUID macro text
- Console Keep device selection when copying a device
- Console Maps: Added fire extinguisher icon set
- Console Monitor: Added total stream duration column under storage
- Console Monitor: Implemented auto-refresh
- Console Monitor: More precise archive duration statistics have been added (Data Duration column)
- Console Servers/Watchdog: Setting 'Monitor system committed memory usage ratio' default value changed to 95%
- Mobotix cameras: Integrated FFgroup LPR analytics
- Server Service: Processing of video frames by analytics engine moved into a separate host process
- Server Backup and Restore Wizard: Enable/disable recorder server reset when restoring central server configuration

# New Device Support:

- Axis: A9161 Network I/O Relay Module
- Axis: C1310-E Network Horn Speaker
- Axis: Siren D4100
- Ganz: ZN1A-2D6DTMZ71 dual-head camera
- Hanwha: XNZ-6320
- Vivotek: FD9360-H, IB9360-H, IT9360-H, MD9560-DH, MD9560-H, FD9166-HNF2, FD9166-HNF4, FD9366-HVF2
  - FD9366-HVF4, FD9368-HTV, IB9368-HT, FD9380-H, IB9380-H, IT9380-H, FD9182-H, FD9388-HTV, IB9388-HT
  - o IT9388-HT, CC9160-H, CC9160-HS, CC9380-HV, FE9380-HV, FD9167-HT-v2, FD9367-EHTV-v2, FD9189-HT-v2
  - o FD9189-H-v2, FD9389-EHTV-v2, FD9389-EHV-v2, IB9389-EHT-v2, IB9389-EH-v2, IT9389-H-v2
- Tanz: THCMx2, THCMx3, THCMx4, THCMx8, THCMxA, TCIBMx1, TCIBMx2, TCIBMx3, TCIBMx4, TCIBMx5
  - o TCIBMx6

#### Fixes:

- Client Multi-display: Inappropriate behavior on displays with different DPI settings
- Console Audit: Filter is reset on server reconnect
- CORTROL as POS Client, won't re-establish a connection after the network connection is lost
- CORTROL unable to read data items from Bolid Orion OPC server
- DS-2CD2346G2-IU camera: Fixed Motion Detection
- PixelPro AI driver: Fixed changing RTSP port

# CORTROL 1.20.1 Maintenance release - January 18, 2022

### New features:

- Client: Viewports Enable/Disable transmitting data when in the background
- Client: Snapshot export Enable/disable annotation of External Data and Video Analytics

### Improvements:

• E&A Events: Additional event types added for ONVIF devices

### **New Device Support:**

• N/A

#### Fixes:

- Channels: Axis P3227-LV motion detection fix
- Channels: Fixed 'video lost time' value change when multiple channels are edited
- Channels: Mobotix P7 Series (M73) mainstream not working when camera RTSP port is different from 554





# Release Notes v1.28.1

- Channels: Vivotek FD9187-HT digital input fix for new firmware
- Maps: Geo Maps Changing the settings without entering the marking section can lead to the loss of actual coordinates
- Video walls: Looses state on display reconnection (Global edition only)
- Fixed CrossLink licensing
  - o Changes in CrossLink licensing render older licenses incompatible with version 1.20.1.
  - o New demo and production license keys issued after the 1.20.1 release will work fine

# CORTROL 1.20.0 Major release - December 17, 2021

### New features:

- Add subject to Face Recognition database (CORTROL FR version 3.1.1 or newer)
- Device type: Interactive URL (CrossLink Basic) License required
- Device type: Remote Desktop (CrossLink Advanced) License required
- VP8 codec support (alternative to JPEG for interactive channels)

# Improvements:

- Client: Dynamic resolution calculation for multichannel video export
- Client Playback: VA metadata displayed on the timeline (do not display empty samples)
- Console Channel Properties: Additional setting under VA: enable/disable 'Camera-side metadata'
- Console Devices: The default port for Advantech ADAM I/O devices changed to 502
- Console E&A / Actions: Action centric "Insert-field" macros added
- Console Monitoring: Includes 'UsedSpace' column in storage
- Console: System Upgrade Force reverse connection check before initiating upgrade (CORTROL Global only)
- Device Support: Mobotix P7 series analytics plugins
- Device Support: "Generic JPEG/M-JPEG Compatible" driver support for HTTPS
- Device Support: ONVIF Driver additional image settings
- Processor group support (optimized performance for systems with more than 64 logical processors)
- Snapshot export: Includes POS, Dewarp, DPTZ State, Metadata, and POS data
- Substream support for HTML Source devices (non-interactive webpages)
- WASAPI device support: better control and monitoring of allocated samples and sample cache

## New Device Support:

- Axis C1410 Speaker
- Beward DS06A model
- CBC (Ganz) ZN9-DP06AP and ZNP-B5M212DP models
- GridSmart models
- Hikvision DS-2CD2042WD-1 model
- Turing TP-MVD5MV2 model
- UDP IPM35A05-7311IR model
- Vigilate vLane A5b model
- Wavesys: IP10201-LDI, IP10202-LDO, IP30201-LDI, IP10201-LBO, IP30203-LDO, IP30203-LBO, IP30203-LBO-V650
  - o IP30301-LDO, IP30303-LDO, IP30303-LBO, IP30303-LBO-V650, IP30203LPT, IP30501-LDO, IP30503-LDO
  - o IP30503-LB0

### Fixes:

- Client Live view: Video Analytics metadata frame may not disappear after the object has gone
- Client Live view: No substream if H.265 codec is selected for Axis Q9216-SLV camera
- Eraser may remove SIXT files unexpectedly when the server is running out of memory
- Motion events from Axis M3016 are considered as VCA metadata since release version 1.19.0
- Possible intermittent WAV file playback if ONVIF driver is selected





POS data can be skipped if it does not include a line separator

# CORTROL 1.19.1 Maintenance release - September 30, 2021

#### New features:

- Client External Service tabs: Option to export search results to PDF
- Client External Service tabs: Option to export search results to XLS (Microsoft Excel Spreadsheet format)
- Client: Library option to send to print PDF files and snapshots

### Improvements:

- Alarm panel improved sorting logic for correct bookmark appearance order
- Client theme editor: Alarm pane option to change color
- Failover server support for external URL events
- Leica BLK247 default port changed to 8082
- Management Console, change device model for multiple devices via bulk edit
- Management Console improved channel selection in bulk edit window: all channels automatically selected
- Moxa I\O devices default port changed to 502
- Notification in 32bit Management Console versions about CVA (CORTROL Video Analytics) supports 64-bit versions
- Optimized performance for servers with many simultaneously connected users
- Paxton configuration, added default Client ID value
- Receive and display localized strings from external services
- Russian and Ukrainian localization updates

# New Device Support:

- Panasonic: WV-S2511LN, WV-S2531LN, WV-SFV481, WV-X4571L, WV-S3111L, WV-SFN130, WV-S2550
- Ganz PixelPro GXi: ZN1A-2nd Gen series
- Mobotix: Move series
- Horus: HO-I-BEN6M-2812, HO-I-BEN8M-2812, HO-I-EEN4P-0168, HO-I-EEN6F-0280, HO-I-EEN6M-2812, HO-I-EEN8F-0280, HO-I-EEN8M-2812, HO-I-EENC4F-0280, HO-I-EENV2T1D-V21T18, HO-NVR16F16P-MH2L-4K, HO-NVR32FD-MH4L-4K, HO-NVR4M4P-MH1-4K, HO-NVR8M8P-MH1-4K, HO-PTZ-I4ENS25

#### Fixes:

- Access permissions may not be calculated correctly (if nested groups of AD users define a user's permissions)
- Archive backup wizard does not collect archive information in case of empty MIXT files
- HTML source may show a blank page instead of the configured website after the server reboot
- Possible server crash due to active Paxton Access Control configuration changes
- Fixed server port change via the server setup wizard

# CORTROL 1.19.0 Major release - July 1, 2021

### New features:

- CNN: Computational Neural Network Engine with CVA (CORTROL Video Analytics)
- Client: Alarm pane for case handling
- Client: Automatic stream selection for Playback (Currently only supported in CORTROL Global)
- Client: Live view and playback navigation history (undo and redo changes in the layout for up to 50 steps)
- Console Complex PW Security: Authentication Lockout (Lock user account after N unsuccessful login attempts)
- Console Counters: E&A based on CVA Zones, Zone rules, and Lines
- Console Counters: CVA based on CVA Zones, and Zone rules
- Console: CVA Zone rules; enter, exit, appear, disappear
- Console: CVA Counting line; crossed A/B, B/A, or any direction





- Console: Visual controls for CVA Zones, Lines, and Counters
- Integration: Paxton access control system
- Language: Added Chinese (Traditional) localization

# Improvements:

- Client administration tool: Option to hide the "remember password" setting
- Client application themes: Import option
- Client: Disabled trackbar change on mouse wheel
- Console/Actions: WAV file playback ignore tags in the file header
- Console/Devices: Title button for quick channel title replacement
- Console/Devices: Video emulation driver path suggestion (local server connection only)
- Console/Devices: "Webpage" device driver renamed to "HTTP Source"
- Console/Channels: Bulk edit of multiple ONVIF cameras
- Console/Channels: Digital inputs for Vivotek MS9321-EHV
- Console/Channels: EDGE recording support for Apix E2 WDR 2712 AF and E2 3611 AF cameras
- Console/Channels: WASAPI audio device 24-bit format input support
- Console/Configurator: Visual expand/collapse setting
- CORTROL Service: Database performance for available resources, permissions check, audit, and events cleanup
- Vivotek multichannel IP cameras: Implemented single channel license

# New Device Support:

- Hanwha: XND-6080R and XNO-6080R
- Panasonic: WV-SPW532L and WV-SF138
- GANZ: ZN1A-D6DTMZ56U-STRENDnet: TV-IP318PIv2
- Mobotix: Mx6 Series and P7 Series
- Axis: M70 Series, P72 Series, A10 Series, Q84 Series, A80 Series, A40 Series, A81 Series, P56 Series, C10 Series
  - o C20 Series, P88 Series, A91 Series, C80 Series, D20 Series, M55 Series, C70 Series, A16 Series, P38 Series
  - o P91 Series, Q62 Series, A82 Series, M42 Series, C82 Series, M71 Series, P73 Series, M32 Series, Q92 Series
  - o C13 Series, C14 Series, D21 Series, C30 Series, P85 Series
- Hikvision: DS-2DE4225IW-DE(S5), DS-2DE4425IW-DE(S5), DS-2DE7A232MW-AE(S5), DS-2DF9C435IH-DLW
  - DS-2DF8425IX-AELW(C), DS-2DF8250I8X-AELW(C), DS-2DF8436IX-AELW(C), DS-2DF8A436IX-AEL(C)
  - o DS-2DF8A836IX-AEL(B), DS-2DF8836IX-AELW(B), DS-2DP1618ZIXS-DE/436/T4(2.8mm), DS-2TD2137-15/P
  - o DS-2DP2427ZIXS-DE/436/T4(2.8mm), iDS-2VS435-F840-EY(0-STD) (T3), DS-2DF8436IX-AEL(T3)
  - o DS-2DF8250I5X-AEL(O-STD) (DJ)(T3), DS-2DF6A425X-AEL(T3), DS-2DE2A404IW-DE3(2.8-12mm) (C)
  - DS-2DE4225IW-DE(E), DS-2DE4425IW-DE(E), DS-2DE4A425IW-DE(B), DS-2DE4A225IW-DE(B)
  - DS-2DE2A204IW-DE3(2.8-12mm) (C), DS-2DE5232IW-AE(C), DS-2DE4A215IW-DE(C), DS-2DE5432IW-AE(B)
  - o DS-2DE5232IW-AE(E), DS-2DE5232W-AE(E), DS-2DE3A404IW-DE/W(2.8-12mm), DS-2CD1023G0E-I(2.8mm)
  - o DS-2DE4A204IW-DE (2.8-12mm), DS-2CD2D21G0/M-D/NF(2.8mm), DS-2CD1321-I(2.8mm) (E)
  - o DS-2CD1023G0-IU(2.8mm), DS-2CD2421G0-IW(2.8mm), DS-2CD2421G0-I(2.8mm), DS-2CD2421G0-IW(2.8mm)
  - o DS-2CV2141G2-IDW(2.8mm), DS-2CD1043G0-I(4mm), DS-2CD2T65G1-I8(4mm), DS-2CD1643G0-IZ (2.8-12mm)
  - o DS-2CD1143G0-I(2.8mm), DS-2CD1043G0-I(2.8mm), DS-2CD1343G0-I(2.8mm), DS-2CD1H43G0-IZ (2.8-12mm)
  - o DS-2CD2047G1-L(2.8mm), DS-2CD2047G1-L(4mm), DS-2CD2185FWD-I(4mm), DS-2CD2141G1-IDW1(2.8mm)
  - o DS-2CD2955FWD-IS(1.05mm), DS-2CD2185FWD-I(2.8mm), DS-2CD2185FWD-IS(2.8mm), DS-2TD2137-25/P
  - o DS-2CD2185FWD-IS(4mm), DS-2CD2H85FWD-IZS (2.8-12mm), DS-2CD2T43G0-I8(2.8mm), DS-2TD2137-10/P
  - DS-2CD2T43G0-I8(4mm), DS-2CD2043G0-I(2.8mm), DS-2CD2143G0-I(2.8mm), DS-2CD2T63G0-I8(6mm)
  - o DS-2CD2443G0-I(2.8mm), DS-2CD2443G0-IW(2.8mm), DS-2CD2463G0-I(2.8mm), DS-2CD2T46G2-4I(4mm)
  - DS-2CD2145FWD-IS(2.8mm), DS-2CD2045FWD-I(2.8mm), DS-2CD2T45FWD-I8(4mm), DS-2CD2046G2-I(4mm)
  - o DS-2CD2345FWD-I(2.8mm), DS-2CD2543G0-IS(2.8mm), DS-2CD2045FWD-I(4mm), DS-2CD2045FWD-I(6mm)
  - o DS-2CD2145FWD-IS(6mm), DS-2CD2145FWD-I(2.8mm), DS-2CD2T46G2-4I(6mm), DS-2CD2145FWD-I(6mm)
  - OS-2CD2345FWD-I(4mm), DS-2CD2T46G2-4I(2.8mm), DS-2CD2T45FWD-I8(2.8mm), DS-2CD2T45FWD-I8(6mm)





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- DS-2CD2385G1-I(2.8mm), DS-2CD2685G0-IZS (2.8-12mm), DS-2CD2T86G2-4I(4mm), DS-2CD2065G1-I(2.8mm)
- o DS-2CD2785G0-IZS (2.8-12mm), DS-2CD2545FWD-IS(2.8mm), DS-2CD2545FWD-IS(2.8mm), DS-2TD2137-7/P
- o DS-2CD2085G1-I(2.8mm), DS-2CD2045FWD-I(2.8mm), DS-2CD2145FWD-I(2.8mm), DS-2CD2345FWD-I(2.8mm)
- o DS-2CD2165G0-IS(2.8mm), DS-2CD2665G0-IZS (2.8-12mm), DS-2CD2365G1-I(2.8mm), DS-2CD2346G2-I(6mm)
- o DS-2CD2T65G1-I8(2.8mm), DS-2CD2723G1-IZS (2.8-12mm), DS-2CD2165G0-I(2.8mm), DS-2CD2065G1-I(4mm)
- o DS-2CD2T85G1-I8(2.8mm), DS-2CD2T85G1-I8(4mm), DS-2CD2383G0-I(2.8mm), DS-2CD2385G1-I(6mm)
- o DS-2CD2343G0-IU(2.8mm), DS-2CD2347G2-L(2.8mm), DS-2CD2T45FWD-I8(2.8mm), DS-2CD2043G2-I(2.8mm)
- o DS-2CD2T45FWD-I5(6mm), DS-2CD2645FWD-IZS (2.8-12mm), DS-2CD2745FWD-IZS (2.8-12mm)
- o DS-2CD2H45FWD-IZS (2.8-12mm), DS-2CD2T47G1-L(4mm), DS-2CD2T45G0P-I(1.68mm), DS-2TD2836-25/V1
- o DS-2CD2347G1-L(4mm), DS-2CD2347G1-LU(4mm), DS-2CD2365G1-I(2.8mm), DS-2CD2146G2-ISU(2.8mm)
- o DS-2CD2645FWD-IZS (2.8-12mm), DS-2CD2H45FWD-IZS (2.8-12mm), DS-2CD2143G0-IU(2.8mm)
- o DS-2CD2345G0P-I(1.68mm), DS-2CD2347G1-L(2.8mm), DS-2CD2347G1-LU(2.8mm), DS-2CD2T47G1-L(2.8mm)
- o DS-2CD2543G0-IWS(2.8mm), DS-2CD2086G2-I(2.8mm), DS-2CD2047G2-LU(2.8mm), DS-2CD2386G2-I(2.8mm)
- o DS-2CD2686G2-IZS (2.8-12mm), DS-2CD2T86G2-4I(2.8mm), DS-2CD2347G2-LU(4mm), DS-2CD2085G1-I(4mm)
- o DS-2CD2386G2-IU(2.8mm), DS-2CD2086G2-IU(2.8mm), DS-2CD2786G2-IZS (2.8-12mm), DS-2TD4237-25/V2
- o DS-2CD2046G2-I(6mm), DS-2CD2346G2-IU(2.8mm), DS-2CD2746G2-IZS (2.8-12mm), DS-2CD2T87G2-L(4mm)
- o DS-2CD2646G2-IZS (2.8-12mm), DS-2CD2046G2-IU(2.8mm), DS-2CD2146G2-I(2.8mm), DS-2TD2617-3/P
- o DS-2CD2346G2-I(2.8mm), DS-2CD2346G2-ISU/SL(2.8mm), DS-2CD2046G2-I(2.8mm), DS-2CD2T87G2-L(2.8mm)
- o DS-2CD2T46G2-ISU/SL(2.8mm), DS-2CD2646G2-IZSU/SL (2.8-12mm), DS-2CD2047G2-L(2.8mm)
- o DS-2CD2T47G2-L(2.8mm), DS-2CD2347G2-LU(2.8mm), DS-2CV2041G2-IDW(2.8mm), DS-2CD2546G2-I(2.8mm)
- $\circ \quad \text{DS-2CV2046G0-IDW} (2.8 \text{mm}), \\ \text{DS-2CD2386G2-IU} (2.8 \text{mm}), \\ \text{DS-2CD2T46G2-4I} (2.8 \text{mm}), \\ \text{DS-2CD2T43G2-4I} (4 \text{mm}), \\ \text{DS-2CD2T43G2-4I$
- DS-2CD2546G2-IS(2.8mm), DS-2CD2H46G2-IZS (2.8-12mm), DS-2CD2147G2-SU(2.8mm), DS-2TD2137-35/P
- o DS-2CD2143G2-IU(2.8mm), DS-2CD2347G2-LU(2.8mm), DS-2CD2T86G2-4I(2.8mm), DS-2TD1217B-3/PA(B)(C)
- o DS-2CD2463G0-IW(2.8mm), DS-2CV2046G0-IDW(2.8mm), DS-2CD2343G2-I(2.8mm), DS-2CD2143G2-I(2.8mm)
- DS-2CV2041G2-IDW(2.8mm), DS-2CD2H86G2-IZS (2.8-12mm), DS-2CD2T43G2-4I(2.8mm), DS-2TD1217-2/P
- OS-2TD2617B-6/PA(B), DS-2TD2636B-15/P(B), DS-2TD1217B-6/PA(B)(C), DS-2TD1217B-6/PA(B), DS-MH2311

# Fixes:

- Console: Error 'Parameter is incorrect in Organization's audit
- Client: If a device is using a Generic ONVIF driver, the first PTZ preset may not be saved
- LDAP: Scenario when sub-domain is not accessible and sub-domain users' permissions may reset to default values

# CORTROL 1.18.1 Maintenance release - April 29, 2021

### New features:

- Client: Facial recognition data reports (Requires FR version 3.1.0 or newer)
- Client: Ability to scroll down server list in Server Time Zone settings
- Implemented WASAPI support for audio devices

# Improvements:

- Support for AD/LDAP sub-domains (groups and users' selection)
- Sorting algorithm for Audit search result

# **New Device Support:**

• Dahua DH-TPC-SD8421-T model

#### Fixes:

- Fixed possible flickering of VCA frame in the Client application
- Fixed DI display in the Console application for Vivotek FD9365-HTV and FD836BA-HTV models





# CORTROL 1.18.0 Major release - March 11, 2021

## New features:

- Client: PDF Snapshot Report Exports report with snapshot and operator's description
- Client: H.265 hardware decoding on GPU
- Client: Map support for live video preview for channel markers
- Console: Basic video analytics (Advanced object detection, with classification)
- Console: External database support to store audit events (PostgreSQL, MySQL, Microsoft SQL Server) ( Global only)
- Console: NTP Server support. Ability to synchronize Windows time settings
- Console: New analytics engine: Convolutional Neural Network (CNN)
- Client: Generic ONVIF driver support for video analytic object (frame display over the object in Live and Playback)

# Improvements:

- CORTROL Premier: Camio support (Setting for the local server IP address)
- Client: Improved timeline rendering speed
- CORTROL License notifications in Client and Console (Trial and expiration reminder)
- Console: Camio Box connection authentication
- Language localization updates: Polish, Russian, Malay, German, Dutch, and Italian

# New Device Support:

- CBC GANZ models: GANZ AIBox 4 and GANZ AIBox 8
- Milesight models: MS-C5371-X23HPB and MS-C5364-PB
- TRENDnet models: TV-IP420Pv2 and TV-IP440PIv2
- Leica model: BLK247
- Avigilon model: 8.0-H4A-D01-IR
- Dahua models: DH-SD60230-HNI, TiOC
- Vivotek models: FE9182-H, IB8377-HT, FD9365-HTV, FD9187-H, IT9389-HT, IB9391-EHT
  - o MS9390-HV, FD9167-H, MA9321-EHTV, MS9321-EHV, IP9167-HP

### Fixes:

- Archive statistics not updated outside eraser cleanup hours
- Attached audio does not work with the new ONVIF driver
- Client: Odd Digital PTZ behavior when using ImmerVision fisheye, and Panomorph lens
- Client: PTZ presets functionality for eVidence Apix 10ZBullet / S2 camera
- Data sources: If several transactions arrive at once, some lines may not be displayed in the archive
- Fixed audio stream pre-recording time
- In rare cases start of the VCA event on UDP cameras may be ignored
- Multicast: Fixed audio, POS, VCA, and motion data transfer
- Unable to create external service action for any server (None selected)
- VCA counters of UDP cameras may stop syncing with the CORTROL server after multiple network errors

# CORTROL 1.17.1 Maintenance release - December 18, 2020

#### New features:

- Client: Dynamic position and scaling for the viewport notification panel
- Ukrainian localization

- Access Control: Implemented Card+Pin support for Keri DoorNet readers
- Client: GPU decoding improvements





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- Client: Highlight search text in show external data transaction dialog
- Client: Cancel button interrupt for search process in Data Sources, Smart Search, VCA, Bookmarks, Access Control
- Client: Improvements for software counters display (when both old counters and new counters are selected)
- Driver ONVIF: Added audio input support for TOA devices
- Event (Variables and Counters): Support for special Latvian (UTF-8) letters in the Data Sources event
- External data search optimization
- Maximum prerecording time increased from 60 to 200 seconds
- Play pre-recorded audio patterns for MOBOTIX S16B

# New Device Support:

- Panasonic model: WV-U1132 camera
- Aventura model: CAM-IPM-2ZW-36X-IR camera
- Merit Li-Lin models: MR8422X, MR6422X, ZSR8122LPR-HT, PSR5024EX30, P2R8852E2, P2R8852E4, P2R6852E2
  - o P2R6852E4, P2R6552E2, P2R6552E4, P2R6352AE2, P2R6352A, P2R3052AE2, P2G1052X, P2G1052
  - o P2R8822E2, P2R8822E4, P2R6522E2, P2R6522E4, P2R6822E2, P2R6822E4, P2R6322AE2, P2R6322A
  - o P2R3022AE2, P2G1022X, P2G1022, P3R6322E2, P3R6522E2, P3R8822E2, P5R6352E2, P5R6552E2
  - o P5R8852E2, P5R6522E2, P5R8822E2, Z2R8052EX25, Z2R8152X-P, Z2R8152X2-P, Z2R8852AX, Z2R6552X
  - o Z2R6452AX, Z2R8022EX25, Z2R8122X-P, Z2R8122X2-P, Z2R8822AX, Z2R6422AX-P, Z2R6422AX
  - o Z2R6522X, Z3R6422X3, Z3R6522X, Z3R8922X3, Z5R6452X, Z5R6552X, Z5R8852X, Z5R6422X3, Z5R6522X
  - o Z2R6452AX-P, Z5R8922X3, F2R36C2IM, F2R3682IM, P5R6322E2
- TRENDnet models:
  - o TV-IP344PIv2, TV-IP345PIv2, TV-IP1318PI, TV-IP1319PI, TV-IP1314PI, TV-IP1315PI, TV-IP1313PI
  - o TV-IP1328PI, TV-IP1329PI
- Dahua models:
  - IPC-HDBW4231F-E2-M, IPC-HFW81230E-ZE, IPC-PDBW5831-B360, IPC-HDBW5442E-ZE
  - o IPC-HDBW5431E-ZE

# Fixes:

- Bookmark search source 'Everywhere' will not stop if disconnected servers are present in the Client connections list
- Client may hang when timeline control is too small
- Duplication of frame number in H264 frame for Dahua DHI-XVR4116HS
- Monitor information processing from Hikvision DS-2CD2346G2-IU via the new ONVIF driver
- 'ServerDateTime' macro provides incorrect time during video export
- Using space bar on any toggle button blocks UI inputs

# CORTROL 1.17.0 Major release - September 02, 2020

### New features:

- Action type: Activate PTZ tour
- Action type: Device action (for device-specific commands)
- Client: GPU hardware decoding for H.264 codec
- Client: GPU hardware decoder performance test utility
- Client: Fisheye, hardware accelerated dewarping
- Client: "Combine all visible tracks" resolution selection upon export
- Client: Timeline and bookmarks thumbnail preview
- Client: Display of External Service events by assigned event/tag color
- Event type: Counter value for the camera, and Software side counters
- Event type: Variable value (Mapping metadata, POS, from device/camera)
- Language: Malay and Portuguese localizations





# Improvements:

- Action type "Popup object on video wall": Added specific viewport number
- Archive Backup Wizard: Support for visual groups added
- Bookmark: Selection of severity level color when creating a bookmark-related action
- Client: Offer MKV+VP8 for multichannel export if other unsupported export settings are selected
- Client: Show / Hide Timestamp information in viewport video overlay
- Client: Show / Hide Hardware decoder information in the viewport video overlay
- Client: Show error when passing a search request when there is no external service available
- Console: Enable / Disable Setting's "Show monitoring warnings"
- Display Server Setup Wizard to set initial database configuration in case Console connects to a non-configured server
- Events and Actions: implemented new view and categories
- Failover server: assign channels to the same storage name on the Recording server, otherwise default storage used
- HTTP API: Added bookmark severity support
- Language: improvements for German, Dutch, Polish, and Russian localizations
- Maps: Linking options for icons and titles size selections
- Mobile App: LDAP/AD support
- Monitoring: Substream video loss
- Monitoring: Critical status for empty storage
- Monitoring: Warning for missing (not configured) substream
- Monitoring: Warning when there is not enough space for quota
- Monitoring: Warning when GOP length is greater than 3 seconds
- New ONVIF device driver (old driver renamed to legacy)
- Playback: Option to search bookmarks across all channels
- Small and/or encrypted archive storage drives will not be added to configuration automatically
- Web Client: implemented substream playback
- Major recording and archive handling optimization:
  - o Timeline, Recorder, Eraser, Stream readers
  - o Archive statistics, Archive index cache, Archive backup
  - o Archive protection/deletion Recording queue custom

## New Device Support:

- Jacques Intercom Server: Audio data and call events
- GanzBridge and GXiServer: Video and events
- TOA: two-way audio support and event triggering
- GANZ AIBOX: Video and events
- OPTEX PIE-1: Events
- Satel Integra ETHM-1 Access Control: Events
- Sunell SN-T5/F Bi-spectrum Network Camera
- Evidence Apix: Bullet/E5 2713 AF
- Infinity: SWP-2000AS 2812
- GANZ: ZNT8-B0F8-TASX4
- Dahua thermal cameras: TPC-BF5421-T, TPC-BF3221-T
- Dahua Ultra-AI Series 7XXX: IPC-HDBW7842H-Z4, IPC-HFW7842H-Z4, IPC-HFW7842H-Z, IPC-HF7842F, IPC-HDBW7842H-Z, IPC-HFW7442H-ZFR, IPC-HFW7442H-Z4FR, IPC-HFW7442H-Z4, IPC-HFW7442H-Z, IPC-HF7442F-FR, IPC-HDBW7442H-ZFR, IPC-HDBW7442H-Z4FR, IPC-HDBW7442H-Z4, IPC-HDBW7442H-Z, IPC-HDW8341X-BV-3D, IPC-HDW8341X-3D-S2, IPC-HFW8241X-3D, IPC-HFW8241E-Z5, IPC-HFW8241E-Z, IPC-HF8241F, IPC-HDBW8241E-Z5, IPC-HDBW8241E-Z, IPC-HF8242F-FR, IPC-HFW8242E-Z20FR-IRA-LED, IPC-HF8242F-FD, IPC-HFW8242E-Z20FD-IRA-LED, IPC-HFW8242E-Z4FR-IRA-LED, IPC-HFW8242E-Z4FD-IRA-LED, IPC-HD4140X-3D
- Dahua Pro-AI Series 5XXX: IPC-HDBW5541E-ZE, IPC-HDBW5541E-Z5E, IPC-HFW5541T-ASE, IPC-HF5541E-E, IPC-HDBW5541R-ASE, IPC-HFW5541E-ZE, IPC-HFW5541E-Z5E, IPC-HDBW5442H-Z4E, IPC-HDBW5442H-ZHE, IPC-HDBW5442H-ZE, IPC-HFW5442H-ZHE, IPC-HFW5442H-Z4E, IPC-HFW54A





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HDBW5442E-Z4E, IPC-HFW5442T-ASE, IPC-HF5442E-E, IPC-HDBW5442R-ASE, IPC-HDBW5442E-ZE, IPC-HFW5442E-ZE, IPC-HDBW5242H-Z6E-MF, IPC-HFW5242H-Z6E-MF, IPC-HFW5242H-ZE-MF, IPC-HDBW5241E-ZE, IPC-HDBW5241E-Z5E, IPC-HFW5241T-ASE, IPC-HFS241E-E, IPC-HDBW5241R-ASE, IPC-HFW5241E-ZE, IPC-HFW5241E-Z12E, IPC-HFW5241E-Z5E

Dahua PTZ Starlight Series A2XXX, A4XXX: SD8A440WA-HNF, SD5A432XA-HNR, SD5A425XA-HNR, SD5A445XA-HNR, SD8A250WA-HNF, SD8A240WA-HNF, SD10A248V-HNI, SD5A232XA-HNR, SD5A225XA-HNR, SD5A232XA-HNR, SD5A232XA-HNR, SD5A225XA-HNR

#### Fixes:

- External server: Creation of multiple copies with the same ID after service connection/disconnection
- Open VCA counters may not be displayed in reports after creation until the server restart
- Sound from Command Intercom is choppy during the archive playback
- Mobile streaming is not properly working with the Global Failover Server when HTTPS is enabled
- Camio will not search while the special characters are used in the camera channel name
- Incorrect bookmark creation time if bookmark viewed just after creation in playback
- Data source text on exported video may be shown incompletely
- Anonymous user gets mainstream instead of substream through an HTTP API link
- Recording Server: "Send event to client" action will not work when the Global server and the Mirror server is online
- Indicator states are not updated on the map if Monitor connected to Mirror server
- PTZ presets cannot be saved through the CORTROL Client app for the TRENDnet TV-IP420P camera
- Export snapshot action: Macros {EVENT\_DATE} or {EVENT\_UDATE} cause the creation of a folder with a snapshot
- Unable to load configuration file for Custom Config device

# CORTROL 1.16.1 Maintenance release - May 11, 2020

### New features:

- Client: Option to auto-expand Server node(s) in the tree view
- Client: Option to auto-expand Visual folder(s) in the tree view

## Improvements:

- Counter Reports: Accuracy and consistency
- Bookmarks: Show severity color when created in the Client application
- Bookmarks: Added severity level to CSV export
- Heatmap grid increased from 32×32 to 128×128
- Minor typos and visual improvements
- OPC: Force retrieve data when some OPC servers fail to provide the variables immediately after a restart
- Counter Reports: Chart's visuals
  - o Draws bars inside the aggregation interval
  - o Add total sum label in bars chart
  - o Dynamic label font size

## New Device Support:

- Camscan: SOHO5-IPIR.50F, SOHO5-IPVD.30F, SME2-IPIR-30F, SME8-IPIR-50M, SME2-IPVD.30F, SME8-IPVD-30M
- Hanwha: XND-6080RV, XNV-6080R, PNM-9080VQ, PNM-9020V, PNM-7000VD, XNF-8010R
- Hikvision: DS-2TD2617-6/V1, DS-2TD2137-10/VP and DS-7732NI-K4 models
- eVidence Apix Series: Box Series: Box / E4 (II), Apix Box / E12
  - o MiniDome Series: MiniDome / E2 21 (II), MiniDome / E2 28 (II), MiniDome / E4 21 (II), MiniDome / E4 28 (II),
  - MiniBullet Series: MiniBullet / M4 28 (II)
  - Bullet Series: Bullet / M2 2812 AF (II), Bullet / E2 3611 AF, 4ZBullet / M8, 4ZBullet / S2 (II), 2ZZBullet / S2 SUP,
  - Domes Series: VDome / E5 2713 AF, Dome / E2 2812, 5ZDome / M5 WiFi, 5ZDome / M2, 12ZDome / E3 EXT (II)
  - Domes Series: 12ZDome / E5 EXT, 22ZDome / S2 LED SUP, 22ZDome / M8, 38ZDome / M8





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- o Thermal; CIF 15 (rev. B), CIF 25 (rev. B), CIF 35 (rev. B), CIF 50 (rev. B), VGA 8 (rev. B), VGA 15 (rev. B),
- o Thermal; VGA 35 (rev. B), VGA 50 (rev. B), CIF PTZ 30×08, CIF PTZ 30×15, CIF PTZ 30×25, CIF PTZ 30×35
- o Thermal; VGA PTZ 30×08, VGA PTZ 30×15, VGA PTZ 30×25, VGA PTZ 30×35, VGA PTZ 30×50, CIF PTZ 75M
- o Thermal; CIF PTZ 30×75M, CIF PTZ 30×100M, CIF 08 (rev. B), VGA 25 (rev. B), CIF PTZ 100M, CIF PTZ 30×50
- FishEye Series: FishEye / E12 EXT

#### Dahua:

- o IPC-HFW5442E-ZE, IPC-HFW7442H-ZFR, DH-IPC-HF7442F, DH-IPC-HF7842F, DH-IPC-HF7442F-FR
- o DH-IPC-HFW7442H-Z, DH-IPC-HFW7442H-Z4, DH-IPC-HFW7842H-Z, DH-IPC-HFW7442H-ZFR
- DH-IPC-HFW7442H-Z4FR, DH-IPC-HDBW7442H-Z, DH-IPC-HDBW7442H-Z4, DH-IPC-HDBW7842H-Z
- o DH-IPC-HDBW7442H-ZFR, DH-IPC-HDBW7442H-Z4FR, IPC-HF5241E-E, IPC-HF5442E-E, IPC-HF5541E-E
- o IPC-HDBW5241E-ZE, IPC-HDBW5241E-Z5E, IPC-HDBW5442E-ZE, IPC-HDBW5442E-Z4E
- o IPC-HDBW5541E-ZE, IPC-HDBW5541E-Z5E, IPC-HFW5241E-ZE, IPC-HFW5241E-Z5E, IPC-HFW5241E-Z12E
- IPC-HFW5442E-ZE, IPC-HFW5442E-ZHE, IPC-HFW5442E-Z4E, IPC-HFW5541E-ZE, IPC-HFW5541E-Z5E
- o IPC-HFW5241T-AS-PV, IPC-HFW5541T-AS-PV, IPC-HDW5241H-AS-PV, IPC-HDW5541H-AS-PV

### Fixes:

- Action 'Export Snapshot' forgets FTP server password after changes in settings
- Exporting video in MKV format with audio and soft subtitles gives error 0x8004406a in the Library of the Client
- Unable to talk to a remote device via the Mobile application if the device uses an external audio source
- Bookmarks may not be displayed on the timeline but are present in the database and playback search results
- 'Invalid password' error on login for users that were imported from another database

# CORTROL 1.16.0 Major release - February 14, 2020

### New features:

- Client application: View non-interactive websites
- Client application: New Fisheye Dewarp engine optimized for 6MP and larger resolutions
- Client application: Viewport button to send the channel to Sequence Explorer
- Client application: Viewport button to send the channel to Smart Search
- Event & Action Configurator: Added Access Control System Events under "Events options"
- Layout Pop-up Quick Select: multi-item selection, (cameras/maps), live stream layout popup
- Roger RACS 5 Access Control Support

# Improvements:

- Audit Policy: Access Control events for Lock/Unlock/Temp Unlock actions performed within the Client application
- Bookmark Policy: Pre-configurable severity levels with colors indicator
- Client application: Selection of Pop-up for Channels/Maps, and Layouts at the same time
- Events & Actions: Conditions allow saving conditions and indicator states after a server restart
- Implemented additional actions and events for Keri access control
- Localization improvements for Polish, German, Italian, and Turkish languages
- Multi-Monitor Instant Playback support for the 'Go to Playback' button "send to Playback"
- Significant playback and instant playback improvements (performance optimization, fully reworked timeline)

## New Device Support:

• N/A

# Fixes:

- Possible memory leak on channels with motion detection and prerecording when recorder cannot write data (network storage not available)
- Instant playback decoding issue while timeline zooming in/out





- Incorrect behavior of scheduled event (periodical) when changes are made to the database via Console
- Shared layout and map deletion does not check related rule

# CORTROL 1.15.1 Maintenance release - December 19, 2019

### New features:

- Added to Client Administration Tool, Option to hide.
  - o Local layouts / Local layout templates / Layout sequences
  - o Server layout templates
  - Shared layouts

# Improvements:

- Security improvements for streaming server: TLS1.0/TLS1.1 replaced by TLS1.2
- Pelco Optera models: Improved video stream selection

# New Device Support:

• N/A

# Fixes:

• Archive Backup Wizard: Renamed channel streams shown with the previous channel name

# CORTROL 1.15.0 Major release - November 8, 2019

### New features:

- Support for Gallagher Command Centre access control
- Support for Visual Access Systems (GSF Corporation) access control
- Support for multi-level visual groups
- External Service support on Recording Servers
- Assign a recording server for video wall management in the Global server
- New events on Global Server (Central Server): recording server connected/disconnected
- New columns in Console's monitoring section: Disk queue length and Channel Jitter (uneven video frame receive)
- Option for VCA and software counters history removal
- Configurable archive bookmark count quota in the Console application
- Support for Camio services (www.camio.com):
  - Video streaming to Camio Box, live event received, archive navigation by Camio events

- Improved bookmark reading performance
- Implemented ONVIF analytic events support
- Implemented generic event grid view in Smart Search and External Services tabs
- Added new filter 'system events' for Access Controls' in the Client application
- Added separate permissions for the software counters
- Instant playback improvements: functionality (play/pause by mouse click), on-screen slider, and shortcuts
- Added sorting for event and action lists in the event & action configurator
- Added Client usability setting to allow decreasing playback speed for Fast Rewind / Fast Forward instead of pausing
- Implemented an option to display access control systems under its tab in the Client application
- Added unlimited timeout option for user description in the 'Create bookmark' action
- Disallowed user button activation via keyboard (enter or space) in the Client application
- Selecting the corresponding channel when selecting bookmarks or VCA events (in multichannel playback view)
- Removing viewport selection on Ethe scape button





- Minor Console interface improvements
- Added Client usability setting 'External Service event background opacity'

# New Device Support:

- Axis Q6000-E Mk II and Q6055-E PTZ models
- Dahua DHI-NVR616-128-4KS2 model
- Halo Smart Sensor

### Fixes:

- Lock color on map is always the same as Access Control door color
- Random item title in audit for the event 'Bookmark popup confirmed'

# CORTROL 1.14.1 Maintenance release - October 4, 2019

#### New features:

- Notification Panel: Implemented font size adjustment
- Notification Panel: Implemented thumbnail display setting

### Improvements:

- Allow different layouts for live and playback modes in the Client application
- Added Dewarp support for Fisheye cameras Native Archive Data in the Portable Player
- Added support for digital outputs for Evidence APIX-30ZDome/E3B and Apix-30ZDome/E3 LED EXT cameras
- Improved Object speed detection for Open VCA
- Implemented an option to close all message warning boxes for the 'Send event to client' action
- Improved backing up of configuration databases: increased delay between attempts to copy locked pages of database, increased number of attempts to copy locked pages of database, and added error codes for ZIP routines
- Added default bookmarks limit count (500,000)

# New Device Support:

- HikVision DS-2DE3304W-DE, DS-2DE5225IW-AE, DS-2DE5432IW-AE, DS-2CD2143G0-I-2.8MM, DS-2CD2E20F-2.8MM, DS-2CD2T23G0-I5, DS-2CD2T43G0-I5, DS-2CD2T83G0-I5, DS-2CD2683G0-IZS, DS-2TD4166-25V2
- Dahua DH-SD8A440VI-HNI
- Hanwha XNV-6012
- ENE Enexxis series

### Fixes:

- Fixed edge recording support for Axis cameras
- Fixed OPC functionality on Recording servers
- B2 Zone Alarm triggered as A2 Zone Alarm on REDSCAN devices
- Invalid order of external data search results when multiple lines have the same time

# CORTROL 1.14.0 Major release - August 13, 2019

# New features:

- Client Video Wall: Composite screen (tiles) (CORTROL Global only)
- Client Configuration: Import / Export
- Console Column Management: Width / Arrangement / Order of Priority / Add / Remove / Lock
- New E&A Event: Data Source Event
- Web Client: LDAP/AD Support





Language: Thai localization added

# Improvements:

- Automated Reports Counters: Export Charts as a CSV File (Comma Separated Values)
- Automated Reports Counters: Show Bar and Line values
- Client Administration Tool: Added Reports, Video Wall, External Services (LPR/FR), Data Sources, Access Control
- Client Connections: 'Disconnect all' added
- Client Improvements for Low-Resolution Displays
- Client Reports Counters: Export Charts as a CSV File (Comma Separated Values)
- Client Reports Counters: Show Bar and Line values
- Client Reports: Pie charts now will show negative counter values in the legend
- E&A Video Wall: Event Added / Removed / Updated
- Global Server Mirroring: Added Video wall synchronization
- Live Viewports: Restore channels when manually re-connecting to the same server
- ONVIF Driver Memory Management: Optimized to Prevent Memory Leaks
- Server Memory Management: Allocation Speed & Prerecording Limit Improvements
- Russian localization improvements
- Console > Monitoring: New Parameters Main/Sub Stream Codec & GOP Size, Main/Sub/Edge Stream Storage, Device Model, Motion Detection Mode, Frame Cache, IP, Port

# New Device Support:

- HikVision DS-2CD1043G0-I and DS-2XE6222F-IS/316L models
- Optex REDSCAN RLS-2020 model

### Fixes:

- Client Connection Dialog: Fixed Server Sorting
- Report does not show some counters when there are no counters recorded in the specified interval (absolute values)
- No notifications (VCA events) are received from Common devices after the server has been restarted and until the
  user manually changes the port number of the remote server
- Portable player may crash when playing mp4 files with audio
- When more than 20 server actions are pushed into the queue, some actions can be postponed or lost

# CORTROL 1.13.1 Maintenance release - July 01, 2019

#### New features:

- Added "Connection lost" events to Optex RESCAN devices
- Added "Connection restored" events to Optex RESCAN devices

- Dual CPU socket systems: Performance improvements
- Native VM built-in: Heartbeat function no longer needed for VM Environments
- Data sources: Profile now able to process a null character
- Client Notification "Administration tool not allowed in Exclusivity mode"
- Uniview devices: Implemented digital input state update subscription
- Added Edge support for eVidence: Apix Box M2 (II), S2 SFP Expert, M12 SFP, VDome / E8 EXT 2812 AF, Bullet M2 2812 (II), M4 2812 AF, 10ZBullet S2, 22ZBullet S2 SFP, FishEye M12 EXT (II) rev.2, 22ZDome M2 (II), 22ZDome S2 LED SFP, 33ZDome S2 LED, 33ZDome S2 LED, 33ZDome S2 LED, Bullet M8 2812 AF





# New Device Support:

- Axis: M3027
- Advantech: ADAM-6066
- HikVision: DS-2CD2041G1-IDW1, DS-2DE5225IW-AE, DS-2DE5432IW-AE, DS-2CD2143G0-I-2.8MM, DS-2CD2E20F-2.8MM, DS-2CD2T23G0-I5, DS-2CD2T43G0-I5, DS-2CD2T83G0-I5, DS-2CD2683G0-IZS
- eVidence: Apix Box M2 (II), Box M12 SFP, MiniBullet M2 40 (II), Bullet M2 2812 (II), FishEye M12 EXT (II) rev.2, 22ZDome M2 (II), 38ZDome S2 LED SFP, 44ZDome S2 LED, 22ZDome M12 LED

### Fixes:

- Vivotek Driver: Possible memory leak when applied CORTROLVCA licenses expire
- Video overlays: DPTZ is disabled and DPTZ controls set to "always on/on if selected" displayed but not operational
- eVidence Apix-Bullet/M4: Camera-side motion detection stops working when HTTP digest authentication is enabled
- Grand stream GXV3504 encoder: Changed number of available channels
- Substream: External audio stream not recording when the mainstream is not recording
- Delay timer may work not precisely if two or more timers are set in Events and Actions Rules

# CORTROL 1.13.0 Major release - April 30, 2019

### New features:

- Heat-map reports in the Client application
- Motion blurring (IDentity Protection) on video export
- Instant playback default mode settings

# Improvements:

- Software Motion detection redesigned
- Eraser/Quotas improvements to avoid potential issues from invalid drive/NAS config
- Client automatically caches the list of recording servers\*
- Channel settings: audio, digital inputs/outputs moved to a new tab in Console
- Install upgrade restriction: Recording Servers with higher version than Global Server
- Channel Replication: Receive archives from multiple servers, including failover (CORTROL Global only)
- E&A: Action Apply subtitles to "Export Snapshot"
- E&A: Action Adjust snapshot title, and subtitles to "Send an email with Snapshot"
- E&A: Action Added text macro for the target channel
- E&A: Event Added 'Recording recovered' in HTTP API
- Russian localization improvements

## New Device Support:

- Hanwha XNB-8000 and XNV-6011 models
- CBC (Ganz) ZN8-P3X30-NIR, ZN8-P4NTAF and ZN8-P5NTAF models

#### Fixes:

• N/A

# CORTROL 1.12.1 Maintenance release - March 21, 2019

### New features:

Activation on Virtual Machines for CORTROL Prime (Free license)





## Improvements:

- Performance improvements for CORTROL Client application displaying 4000+ channels in the list
- Multiple improvements for a system upgrade with many recording servers on a slow connection (CORTROL Global)
- Allowed simultaneous installation package upload for multiple recording servers (CORTROL Global)
- Storage quota configuration re-factory
- Added DI/DO support for camera eVidence Apix Bullet / M4 2812 AF

# New Device Support:

- Dahua: DHI-XVR5432L, IPC-HFW5831E-ZE and IPC-HFW4239T-AS
- Hikvision: DS-2CD-2785FWD-IZ2 and DS-2DE-2202I-DE3/W
- TVT: TD-9342E2, TD-9441E2, TD-9442E2, TD-9443E2, TD-9444E2, TD-9446E2, TD-9541E2, TD-9542E2, TD-9543E2, TD-9544E2, TD-9545E2, TD-9545E2, TD-9452E2, TD-9452E2, TD-9453E2, TD-9551E2, TD-9552E2, TD-9553E2, TD-9554E2, TD-9555E2, TD-9557E2, TD-9451E2A, TD-9452E2A, TD-9453E2A, TD-9551E2A, TD-9553E2A, TD-9554E2A, TD-9555E2A, TD-9482E2, TD-9483E2, TD-9581E2, TD-9583E2, TD-9441S2, TD-9442S2, TD-9541S2, TD-9544S2, TD-9545S2, TD-9451S2A, TD-9482S2, TD-9585S2

#### Fixes:

- Server overload caused video delay in rare cases
- Sub streams selection for ONVIF device
- External event triggers action more than one time after being modified
- Fixed 'Current day' reporting for automatic counters reporting

# CORTROL 1.12.0 Major release - January 28, 2019

### New features:

- Archive calendar: Display data for the selected camera only
- Channel shortcuts: Channel zone links for fast channel tracking
- Client support for "Startup layout sequence"
- Counters now support 'Current day' for automatic reporting
- Devices: Register unlimited External Sources (Mobile) Dynamically assign channels
- E&A Event: Channel group-driven events
- E&A Event: Per channel support for "Recording error"
- E&A Event: Per channel support for "Recording recovered"
- E&A Event: "Video wall"
- E&A Event: "External" triggered directly on recording server via HTTP API
- E&A Action: Indicators Visual status indicators assignable to Maps
- Map-based 'Video lost' status
- Client: Servers and Channels recent errors can be seen
- Permissions support for 'Recent archive interval'
- Recording Schedule: Graphical configuration

- Archive eraser for network storage
- Client application operation on low-resolution displays
- 'Channels' last recording time is displayed in the Monitoring section of the Console application
- Video Overlays: Define text color
- Instant Playback: Shadows for play/pause control icon
- Client Library: "Save file to" Choose folder when exporting
- Simplified configuration steps for newly added replication channel





### **New Device Support:**

- Implemented dewarping support for Pelco Optera Multi-Sensor Panoramic IP Cameras (180, 270, and 360 models)
- Hikvision: DS-2CD2443G0-I, DS-2DE5225IW-AE, DS-2CD2955-IS, DS-2CD2043G0-I models
- Mobotix: M16B, M16B-Thermal, M16B-Thermal TR, M26B, S16B, S26B, T26B, D16B, D26B, Q26B, V16B, c26B, p26B, v26B. i26B models
- TRENDnet: TV-NVR408, TV-NVR416, TV-IP460PI, TV-IP344PIv2, TV-IP345PIv2, TV-IP328PI, TV-IP329PI models
- Dahua: DHI-XVR4116HS DVR
- Osiris: OS-I2-BET2H-ALS, OS-I-CIN3F-AWSM, OS-I-CIN3F-WSMP, OS-I8-SI2F-ALST-BOX-V2, OS-I1-DEN4F3-0280
  - o OS-I2-BEN5M-ALST, OS-I2-BENS2M-ALST, OS-I2-DEN4M-ST, OS-I2-DEN5M-ST, OS-I2-DENS2M-ST
  - o OS-I2-EEN5M-ST-BLACK, OS-I2-EEN5M-ST, OS-I4-BEN4F-AEST-0360, OS-I4-BEN8F-AELST-0280-V2
  - o OS-I4-DEN8F-AELST-0280, OS-I4-EEN4F-EMST-0280, OS-I4-EEN8F-EMST-0280
  - OS-I4-EENS2F-EMST-0280, OS-I4-WEN4F-MST-0280, OS-I5-BEN8M-AELST, OS-I5-BENS2M12-AELST
  - o OS-I5-DEN8M-AELST-R, OS-I5-DEN8M-AELST, OS-I5-DEN8PM-ALST, OS-I5-EEN8M-AEMST
  - OS-I8-BEN12M-AELS, OS-I8-BEN8P-ALS, OS-I8-FEN12P-ALMS, OS-NVR128PD-6H8L-4K
  - o OS-NVR16F16P-5H2LE-4K2, OS-NVR16M16-4H1-4K, OS-NVR24F24P-5H4L-4K, OS-NVR4F4P-4H2L-4K
  - o OS-NVR4M4P-4H1-4K, OS-NVR64PD-6H8L-4K, OS-NVR8F8P-4H2L-4K, OS-NVR8M8P-4H1-4K
  - o OS-PTZ-I12EN30-ALSH, OS-PTZ-I2ESN25-SLMP, OS-PTZ-I4EN30-AISL, OS-PTZ-I4IN4-ASTM
  - OS-XVR16FN8-5H2-4KX, OS-XVR16FN8-5H2P-4KX, OS-XVR16MN4-5H1-X, OS-XVR32FN5-5H2-4K
  - OS-XVR4MN8-5H1-4KX, OS-XVR8FN8-5H1-4KX, OS-XVR8FN8-5H1P-4KX models

#### Fixes:

- Edge recording operation in case SD card has corrupted files
- PixelMaster NVR substream support

# CORTROL 1.11.1 Maintenance release - December 05, 2018

#### New features:

- Audio support and motion display for Instant Playback
- Aggregation for "Email send with snapshot" action
- Description of created bookmark under user audit
- Dutch localization
- Virtual Machine Environment support Requires constant Internet Connection \*\*\*Now includes Premier\*\*\*
  - o Global VM support was added in CORTROL release 1.11.0
  - o Note1: For VM environments, a CORTROL VM-enabled license will be required
  - o Note2: CORTROL Prime does not support VM environments

#### Improvements:

- Archive playback and replication improvements
- Implemented multicast over RTSP for Bosch devices
- Certificate Authority (CA) validation
- Czech localization update

#### New Device Support:

- Hikvision: DS-2CD-1741FWD, DS-2CD-2143G0, DS-2CD-1641FWD
- ONCAM: Evolution 5, Evolution 12, Evolution 180
- Dahua: DH-IPC-HDBW1431EP, IPC-HDBW2431R-ZS, SD50430U-HNI
- Sigura/Optelecom: C-60 EM-C new firmware support
- Yudor: YUC-K7B82 and YUC-HG26B
- Xavee: generic devices





#### Fixes:

- H.264 streams with missing key frames cannot be replicated
- Inconsistent search results from external service

# CORTROL 1.11.0 Major release - October 19, 2018

#### New features:

- Device model change for configured devices
- Device configuration copying
- Channels Video display for the selected device
- Variable Condition Event based on VCA Counters value (more, less, equal)
- Archive playback at x8 playback speed
- Server configuration loading time displayed in the monitoring section in the Console application
- Server connected/disconnected time in monitoring section in the Console application
- Language update English (United States)
- Feenics Access control system support
- Virtual Machine Environment support Requires constant Internet Connection \*\*\*Global Only\*\*\*
  - o Premier VM support is expected within CORTROL release 1.11.1 ETA early December
  - o Note: For VM environments, a CORTROL VM-enabled license will be required

### Improvements:

- Improved playback for highly loaded networks and/or storage
- Recording configuration now also displayed in channel configuration table in console

## New Device Support:

- Telefunken VSC-0810a
- Axis D2050-VE radar
- Louroe Digifact-TM audio device with analytic support
- Hikvision DS-2CD2342WD-I, DS-2CD2420F-I, DS-7616NI-K2 models
- eVidence Apix 30ZBox/M4 (Edge), 33ZBox/M3 (Edge), VDome/M1 3312, FishEye/E6 EXT, Bullet/E2 WDR 2712 AF
- AXYCAM AD11-43B2.8NIL-P, AD7-43V12NIL-P, AD7-53V12NIL-P, AD7-73V12NIL-P, AD2-P33B3.6NIL, AD-33B3.6NIL-P, AD-33B2.8NIL-P, AD-43B3.6NIL-P, AD-43B2.8NIL-P, AD-53B3.6NIL-P, AD-53V12NIL-P, AD10-43V12NIL-P, AD8-43V12NIL-P, AD8-53V12NIL-P, AD8-73V12NIL-P, AD8-83Z3NIL-P, AN5-33B3.6NIL, AN5-33B3.6NIL-P, AN5-43B3.6NIL-P, AN5-53B3.6NIL-P, AN10-33V12NIL, AN10-33V12NIL-P, AN10-43V12NIL-P, AN10-43V12NIL-P, AN10-43V12NIL-P, AN10-43V12NIL-P, AN10-73V12NIL-P, AN12-83Z3NIL-P, AB-43N-P, AB-53N-P, ATN-43Z4NI, ATN-43Z10NI, ASN6-43Z18NI, ASN6-53Z18NI, ASN6-43Z36NI, ASN3-43Z20NI, ASN3-73Z20NI, ASN4-43Z36NI models

#### Fixes:

- Hikvision DS-2CD2420F camera side motion detection initialization
- Axis 2400 does not use correct streams for 2-4 channels
- PTZ control for Vivotek SD9364-EHL
- OS custom time format may freeze archive playback with archive calendar displayed
- Password encryption error for network storage while upgrading from versions older than 1.9
- High bit rate video streaming freeze for mobile and web applications

# CORTROL 1.10.1 Maintenance release - August 23, 2018

#### New features:

• N/A





### Improvements:

- ONVIF driver configuration improvements
- Recording server's synchronization optimization\*
- Added alphabetic sorting option for counters in the Reports tab
- Improvements for archive statistic display in the console application
- Added option in the Client application to select default DPTZ mode (Region/PTZ)
- Added possibility to record Motion, Audio, and VCA data streams with substream
- Added option in the Client application to select how to activate channel via map (single or double click)

### New Device Support:

N/A

#### Fixes:

- Fixed individual amount quota (GB) for channel
- Investigation player cannot resume playing after server disconnection and following connection
- Channels not grouped properly when first-time resource received without live or playback permission
- Layout sequence with shared layouts stops on Central Server disconnection and does not continue after the connection is established again

# CORTROL 1.10.0 Major release - July 23, 2018

#### New features:

- Archive boundaries selection
- Archive interval manual deletion
- Archive interval manual protection
- Client Archive interval manual unprotect
- CORTROL Premier Client and Console remote upgrade feature

#### Improvements:

- Smart device dependency deletion (track if the channel is in use)
- Added drop-down list with last accessed servers in Console login form
- Bookmark search record limit is increased up to 10000
- Show child nodes (streams) when searching tree view in Client Playback
- Fast navigation from device to channels and vice versa
- Show recording identifiers for channels in Console when IDs are enabled
- Console additional information display:
  - o Service level (Status) indicator under the Monitoring section
  - Number of selected items under the Monitoring section
  - o External service: Related resources (list of channels used)
  - o Full list of external services, including disconnected services

#### New Device Support:

- Axis Q87 series
- Dahua DH-XVR5108HS-S2 model

- PTZ may stop working in Client when removing or adding a channel from the layout
- The Mobile app will not receive events if a user/group or target channel is not specified in the E&A configurator
- "Input buffer overflow" error may occur in Archive Backup Wizard while backup large files with motion information





Video loses time setting, ignores its value after server restart

## CORTROL 1.9.0 Major release - June 13, 2018

#### New features:

- HTTPS support for Mobile, Web, and API applications
- Encryption for proprietary archive and archive backup

## Improvements:

- Client application color and design improvements
- Refresh export library in Client application every 5 minutes
- Implemented a color selector for the icon title on a map
- Added video statistics (frame rate, resolution, and codec) for playback mode in the Client application
- Added improvements for the ONVIF driver
- Changed storage configuration so that local disks can be also removed and added manually

### **New Device Support:**

• N/A

#### Fixes:

- Enabling audio on some devices may result in an error 'invalid video frame format'
- Server does not start in case HTTP port is already in use by third-party application or service
- ONVIF Fixed possible scenario with Software Motion Detector and Open VCA issues after Windows 10 updates

# CORTROL 1.8.0 Major release - April 19, 2018

#### New features:

- Encryption support for client-server communication and server databases
- OPC Client functionality support under Events & Actions
- Toggling between Local/UTC/Server time in the Client application
- Mobile application GPS coordinate display on Geo map, recording and playback
- New action 'Pop-up playback on screen' in Events and actions configurator
- Selected camera highlight and positioning on a map
- Video files (AVI, MP4, MKV) exported via the HTTP API
  - o Support for Keri Systems Doors.NET access control: Live status, Archive navigation, Cardholders' info, E&A

#### Improvements:

- Implemented edge recording support for Axis cameras
- Added PTZ functionality to Apix-33ZDome/S2 led camera model
- Implemented export to CSV option for all features under Console Monitoring section
- "Configuration import from database" now automatically upgrades the imported DB in case of version mismatch

#### **New Device Support:**

N/A

- ONVIF cameras may take too long to initiate
- Fixed video display issue in Client application on Intel's latest Xeon processors
- Synchronization of LDAP users may fail if some characters in the domain name are uppercase





- Portable player unable to playback MPEG4 stream in MP4 container
- Watermark Validator showing 'Sequence error' when checking video exported with a gap due to a server restart

## CORTROL 1.7.1 Maintenance release - March 02, 2018

#### New features:

- Added offline video (edge) feature with later upload to the server from CORTROL Mobile application
- Added substream/edge/offline stream playback support for CORTROL Mobile application
- Added a possibility to open archive backup wizard via CORTROL Client application

### Improvements:

- Implement username case insensitivity for AD/LDAP accounts
- Implement an option to specify the domain name in server settings to simplify user login from CORTROL Client
- Restore playback speed after a pause
- Added additional event information under audit export to CSV
- Automatically jump to selected time when accessing playback from instant playback
- Added substream support for LG LNU7210R and LND7210R models

## New Device Support:

- Canon VB-H45, VB-M44, VB-H730F Mk II, VB-S30D MkII, VB-S31D MkII, VB-S800D Mk II, VB-S900F Mk II, VB-S805D Mk II, VB-S905F Mk II models
- Avycon AVC-VHN41FLT, AVC-VHN41VLT, AVC-VHN41AVLT, AVC-VHN81FLT, AVC-VHN81AVLT, AVC-KHN41FLT/2.8, AVC-EHN41FT, AVC-EHN41FT/2.8, AVC-EHN41AVT, AVC-EHN81FT, AVC-EHN81AVT, AVC-LN31SVT, AVC-BHN41FT, AVC-BHN41VT, AVC-BHN41AVT, AVC-BHN81FT, AVC-BHN81AVT models
- Hunt HLT-S8KD, HLZ-79KQ, HLC-6BMD models
- BestDigital BNC-3220HR-W model
- LG LND7210R model

#### Fixes:

- Unable to drag and drop channels between display screens
- Incorrect navigation in archive playback when 'Go to time' is used on OS with 24h time format
- External service stops sending any search requests in case the external service restarts
- Unable to receive a video stream from Bosch NDP5502-Z30L
- Archive statistics do not show updated channel names

# CORTROL 1.7.0 Major release - January 18, 2018

#### New features:

- Added software counters controlled by any generic events
- Added automated reports for video analytics and software counters
- Added automatic failover server deactivation after the corresponding recording server is online (Global only)
- Added auto logout setting in Client application after user inactivity
- Added an option to show a separate timeline for each channel in playback mode
- Added a 'Layout' object type for the maps
- Added action to highlight user button on the map by events
- Added ability to rotate any camera icon on the map

- Minimal failover timeout is set to 10 seconds
- Implemented an option to manage audit settings (number of records and number of days to keep in the database)





Improvements for Samsung devices with the new firmware

## New Device Support:

Hikvision DS-2CD-2025X, DS-2CD-2125X, DS-2CD-2325X, DS-2CD-2625X, DS-2CD-2725X, DS-2CD-2H25X, DS-2CD-2T25X, DS-2CD-2135FWD-IS, DS-2CD-2635FWD-IZS, DS-2CD-2735FWD-IZS, DS-2CD-2935FWD-x, DS-2CD-2H35FWD-IZS, DS-2CD-2T35FWD-x, DS-2CD-2055FWD-I, DS-2CD-2155FWD-IS, DS-2CD-2355FWD-I, DS-2CD-2755FWD-IZS, DS-2CD-2955FWD-x, DS-2CD-2T55WD-x, DS-2CD-2085FWD-I, DS-2CD-2185FWD-IS, DS-2CD-2385FWD-I, DS-2CD-2685FWD-IZS, DS-2CD-2785FWD-IZS, DS-2CD-2785FWD-x

#### Fixes:

- Watermark validator shows error 'Unsupported file format' when checking MP4 files created by CORTROL
- Time format in the console is always 12 hours (am/pm) even if the 24-hour format is set for OS
- Error 'Buffer overflow' may occur in the Console when displaying thousands of user groups from Active Directory
- Fixed available channel count for Axis FA Series devices
- The First frame may not be displayed after navigation to archive playback when CPU usage is high

## CORTROL 1.6.1 Maintenance release - December 19, 2017

#### New features:

- Time lapse video export (MKV only)
- Optimized client application performance for layouts with numerous (50+) channels

### Improvements:

N/A

## New Device Support:

- Topview: BOX080E-IAX0, DOM080E-ORM0309, BLT080E-ORM0309, FHE120E-ORF015, FHE121E-ORF015, DOM020F-ORM2812, DOM030F-ORM2812, MDM021F-IRF028, MBL020F-ORF028, MBL020F-ORM2812, MBL030F-ORM2812, BOX020C-IAX0, BOX030C-IAX0, BOX040C-IAX0, BLT020C-ORM0310, BLT020C-ORM0722, BLT030C-ORM0310, BLT030C-ORM0722, BLT040C-ORM0310, BLT040C-ORM0722, DOM020C-ORM0310, DOM030C-ORM0310, DOM040C-ORM0310, MBL020A-ORF028, MBL030A-ORF028, MBL030A-ORZ0310, MDM020A-ORF028, MDM030A-ORF028, BOX020A-IAX0, BOX030A-IAX0, SPD020C-ODX30X, SPD020C-ODX20X, SPD021C-ODX30X, SPD021C-ODX20X, LPR030A-ORV0750, LPR031A-ORV0750, LPR030A-ODV0880, LPR031A-ODV0880, A301SO-30N
- Samsung: QND-7010R, QND-6010RP, QND-6070R, QNO-6020RP, QNV-6020RP

#### Fixes:

- Possible server crash when enabling VCA analytics
- GANZ PixelPro cameras motion detection issue
- Memory leak in Client application while exporting archive data in MKV
- Motion detection: fix for Dahua devices with old firmware

# CORTROL 1.6.0 Major release - October 27, 2017

#### New features:

- Added archive backup wizard
- Added VCA reports in the Client application
- Added Archive Calendar for playback mode in the Client application
- Added extended list of user permissions and audited events
- Added new actions in the Event & Action configurator: "Display event in the mobile application", "Export snapshot to FTP or local folder", "Start/stop audio file transmission to camera audio output"





- Added ability to raise events based on specified external data values in the Event & Action configurator
- Added functionality to send audio from the Client application to mobile applications on remote mobile devices

#### Improvements:

- Added possibility to decode only the currently maximized viewport in playback mode
- Multichannel archive navigation behavior when moving along the timeline with the mouse button held down
- Added support for hard subtitles for MKV format
- Implemented STARTTLS security mode for the "Send email" action
- Added ability to start Client application with parameters using command prompt
- Added periodical mode for a scheduled event in the Event & Action configurator
- Added possibility to listen to TCP port in external data source provider settings
- Added ability to change playback speed using the mouse wheel on the speed slider
- Added subtitles support for video frame series export
- Implemented Edge recording support for Axis, Dahua, and Hikvision cameras
- Added settings for N sec navigation and timeline interval size for instant playback

## New Device Support:

- ACTi B23, B215, B46, B45, B49, B410, B412, B415, B51, B53, B57A, B59A, B511A, B61, B63, B65, B67, B71, B74A, B76A, B77A, B81, B83, B85, B87, B95A, B96A, B97A, B916, B917, B934, B945, B949, I42, I99, I915, A21, A23, A24, A31, A41, A42, A43, A81, A82, A83, A92 models
- Arecont SurroundVideo Omni G2, SurroundVideo G5 Mini, SurroundVideo G5, MicroDome G2, MicroDome Duo, MicroBullet, MegaView 2, MegaVideo G5, MegaVideo Flex, MegaVideo Compact, MegaVideo 4K, MegaDome G3 RS, MegaDome G3, MegaDome 4K, MegaBall G2, MegaBall series
- Topview BOX080E-IAX0, DOM080E-ORM0309, BLT080E-ORM0309, FHE120E-ORF015, FHE121E-ORF015, DOM020F-ORM2812, DOM030F-ORM2812, MDM021F-IRF028, MBL020F-ORF028, MBL020F-ORM2812, MBL030F-ORM2812, BOX020C-IAX0, BOX030C-IAX0, BOX040C-IAX0, BLT020C-ORM0310, BLT020C-ORM0722, BLT030C-ORM0310, BLT030C-ORM0722, BLT040C-ORM0310, BLT040C-ORM0722, DOM020C-ORM0310, DOM030C-ORM0310, DOM040C-ORM0310, MBL020A-ORF028, MBL030A-ORF028, MBL030A-ORZ0310, MDM020A-ORF028, MDM030A-ORF028, BOX020A-IAX0, BOX030A-IAX0, SPD020C-ODX30X, SPD020C-ODX20X, SPD021C-ODX30X, SPD021C-ODX20X, LPR030A-ORV0750, LPR031A-ORV0750, LPR030A-ODV0880, LPR031A-ODV0880 models
- Axis Q86 Series
- Vivotek SD9161-H model

#### Fixes:

- Watermark failure notification in the Client application
- Archive playback issue on 16x speed with specific h.264 video streams
- Shared layouts do not store the position of the map and geo map
- Geo maps are not available in the action 'Highlight object on map' list
- Instant playback unable to normally play video on fastest speed if maximum FPS is set less than one
- Sometimes the 'No archive tracks' node is visible when the channel has tracks and is in a visual group
- Bitrate mode does not change on camera Airlive BU-3128
- Uniview cameras ignore threshold in motion detector
- Incorrect search by tag in Client application when two LPR services are connected to one CORTROL server
- Portable player crashes when trying to play back AVI files with audio track header but without actual audio data

# CORTROL 1.5.1 Maintenance release - September 01, 2017

#### New features:

- Added edge recording support for UDP devices Not compatible with constant edge recording.
- Added edge recording support for PixelPro GXi devices Not compatible with constant edge recording.
- Implemented VCA events support for Dahua cameras





### Improvements:

- Added ability to split data by data ID to several channels
- Meyertech Telemetry Protocol support improvements

### **New Device Support:**

- Axis M11 Series, M20 Series, F Series, FA Series, Q37 Series, Q36 Series, Q35 Series, P32 Series, M31 Series, P39 Series, Q61 Series, V59 Series, Q29 Series
- Dahua DH-SD22204T-GN, IPC-HFW5431E-Z, DH-SD60430U-HNI, IPC-HFW8630E-Z, DH-SD59430U-HN
- **eVidence** Apix 30ZBox M4, Compact M2 28 WiFi, Box E4, Box E8, MiniDome E2 21, MiniDome E4 21, Dome E2 WDR 2712 AF, Vdome S2 WDR 2712 AF, Vdome E4 2712 AF, Bullet E4 2712 AF, FishEye E6 ICM Industrial, FishEye E6 ICM Industrial, 12ZDome E3 EXT, 22ZDome E2 LED EXT, 30ZDome E3 LED EXT, Thermal CIF 08, Thermal CIF 15, Thermal CIF 25, Thermal CIF 35, Thermal CIF 50, Thermal CIF PTZ 22×25, Thermal CIF PTZ 22×35, Thermal CIF PTZ 22×50, Thermal CIF PTZ 22×100, Bullet M2 2812, Bullet M4 2812 AF
- Foscam FI9900EP model
- Airlive BU-3128 model

#### Fixes:

- End and Time transactions in Data Sources sometimes get messed
- Fixed Theme window display in the Client application
- Fixed translation issue in Problem report wizard in Russian, Polish and French localization
- Unable to unlock Client application if startup mode set as 'Locked application'

# CORTROL 1.5.0 Major release - July 13, 2017

#### New features:

- Added Geo-maps
- Added External data sources. Data is received from a third-party system (for example PoS)
- Removed Full HD resolution limitation for CORTROL Prime free version
- Added option to share audio channel for multiple cameras
- Added security settings for Client application UI controls
- Added channel online/offline status in the Client application
- Added search for VCA objects, events, and counters
- Added export to CSV with some results under Bookmarks, VCA, LPR, FR, PoS, and other external services
- Added archive statistic in the Console application
- Added option to prefer Substreams in playback mode instead of mainstream
- Added open VCA functionality on failover server\* (functionality is only supported in Global edition)
- Added external service action
- Added optional PTZ control UI (classic) under Client application
- Added option to export multiple videos with audio streams
- Added option to hide summary playback timeline outline

- Added option to assign user buttons for channels in the Console application
- Added option to stop video decoding for minimized client application
- Added option to display an image of FR recognition result in the live view notification panel
- Added ability for extra 90 presets in 'Command mapping' settings
- Added support for DCZ keyboard Jog shuttle
- Added support for DCZ keyboard functionality when DPTZ is enabled
- Added external service event's information transmission via macros "Additional information"





- Added detailed information on Watchdog activity
- Added HTTP API URI for channel monitoring
- Added events under HTTP API: motion, video lost, recording error

### New Device Support:

- **Dahua:** EB5500, IPC-HDBW1420E, IPC-HDBW2320R-ZS, IPC-HDBW2421R-ZS, IPC-HFW2421R-ZS-IRE6, IPC-HFW4431S, IPC-EBW8600, TPC-BF5300, NVS1604
- Uniview: IPC2324EBR, IPC2122SR3, IPC324ER3, IPC6222ER-X, IPC6552Sx-X, IPC6858Sx-X, IPC2124SR3, IPC3614SR3, IPC3614SR3, IPC3612ER3-PF, IPC2224SR5, IPC322SR3, IPC2322EBR-DPZ, IPC3234SR3-DVZ, IPC314SR, IPC312SR
- **eVidence:** Apix 22ZDome S2 LED SFP, 33ZDome S2 LED, 33ZDome S2 LR, Box S2 SFP, Box S2 SFP Expert, VDome E8 EXT 2812 AF, MiniBullet M2 36, MiniBullet M4 36, Bullet E8 2812 AF, 10ZBullet S2, 22ZBullet S2 SFP, FishEye M12 EXT (II), CeilingTube S2, WallMount S2, CornerPlate S2, TubePlate S2, TubePlate S
- Canon: VB-S30VE, VB-S800VE, VB-S910F models
- Axis: P3707-PEAirlive: BU-2015

#### Fixes:

- Client application may crash when opened via RDP and then displayed on a real monitor
- Black screen in Client application when full-screen mode is selected on systems with non-default display id
- Digital zoom by mouse scroll for a video dewarping
- Multi-Monitor system may flicker when trying to use viewport overlays controls
- Some columns in external services search results may disappear after switching Client application modes
- Fixed MPEG-4 export for MP4 format
- Duplicated Layout Templates when merging server resources
- Video export does not work when a channel/track title contains a tab character

# CORTROL 1.4.1 Maintenance Release - May 30, 2017

#### New features:

- Unlimited AD/LDAP support for all Premier licenses
- Added Polish localization

#### Improvements:

- Added notification in VCA settings when trying to add zone or counter and MSXML 4.0 SP3 is not installed
- New firmware (V5.2.3.3) for Hikvision DVRs is supported
- Ganz PixelPro series video configuration improvements

## New Device Support:

- Jovision JVS-S3-47, JVS-H5-47, JVS-N85-HK, JVS-N81-G1, JVS-S3-33, JVS-N81-ZCP, JVS-N81-KZ models
- GANZ GENSTAR ZN8-F7NTFN10L (w/FW 3.x)

- Playback time gets lost during a switch from instance playback to multi-playback
- Pelco P/D external PTZ: wrong stop command is sent
- Removed the "failed export" file and removes the "original export" file in the Client application library
- Release includes a Russian localization fix.





# CORTROL 1.4.0 Major release - April 12, 2017

#### New features:

- Camera side H.265 codec support
- Portable Player
- DPTZ new features: picture in picture, presets, zoom by mouse wheel, region selection
- Watchdog support for Client application
- Live podcasts are added with RTMP configuration (including streaming to YouTube and Wowza)
- Added multiple (bulk) editing for devices and channels
- Added video frame attachment (Snapshot) for e-mail notifications
- · Added automatic archive bookmarks with an option for a user to acknowledge the request
- Added new action 'Send Event to Client' under Events & Actions configurator: sound and push notifications
- Added hardware usage information under Monitoring in the Console application
- Critical errors highlighted under Monitoring in the Console application
- Tooltips are added to the Client application
- Added Polish language support

#### Improvements:

- Collapsible search criteria in the Client application
- Added multiple user buttons per single viewport in the Client application
- Added an option to open the viewport notifications pane on the Video Wall monitor\*
- Added links to user manuals in the main menu of Console and Client applications
- Added an option for Recording Server configuration manual reset via Console application\*
- Added a notification message in the Console application in case some of the edited fields miss mandatory data
- MxPEG archive export for MP4 container
- New Device Support:
- Vivotek FE9182-H, FE9382-EHV, IB9371-HT, IB9381-HT, IZ9361-EH, SD9361-EHL, SD9362-EH, SD9364-EHL, SD9366-EHL, CC8130, IP8355EH models
- BrickCom OSD-200Np and MD-H600Np models

### New Device Support:

N/A

#### Fixes:

- Ability to save stream mode in layouts
- Watermark validator showing error 0x800440c7 when trying to check a large AVI file (more than 1GB)
- Unable to export snapshots & video onto a NAS
- Ctrl+Shift+A (Map all screens) shortcut: Replication channels are displayed in the Client Application Live mode
- Unable to open properties for Open VCA objects by mouse double click if objects are stretched from end to end
- VCA events are not available in E&A configurator from some Hikvision camera series
- Synchronization of LDAP users fails if LDAP user account is not lowercase
- Unable to synchronize user from LDAP server when user's password is set via console
- External PTZ and audio not available in Client application for HC boards
- RTSP audio does not work in Custom Config driver
- E&A Send HTTP request action: redundant spaces are removed automatically

# CORTROL 1.3.1 Maintenance Release - February 23, 2017

#### New features:

- Added support for UDP Technology camera side metadata overlay during a video live view and playback
- Added support for PixelPro GXi camera side metadata overlay during live video view and playback





- Supported metadata is seen in the overlay
  - Objects
  - Non-Alarmed Objects
  - o Speed / Hight / Area
  - o Class / Identifier

#### Improvements:

• Optimized server interaction with multi-channel devices

## New Device Support:

Mobotix X5 series

#### Fixes:

- Client buttons overlap when using a minimal window size
- Failover node role is not removed from the Recording server configuration after setting change (Global Only)
- Error when opening the Monitoring section in the Organization view (Global Only)
- iSCSI storage re-initiation after connection restored
- Video streaming from the mobile application to Recording Server (Global Only)
- Motion detection Event returns incorrect macros values
- Client application crashes if switch OS user account
- Actions from External Sources
- PTZ Toggle control may disappear for ONVIF cameras after Server restart

## CORTROL 1.3.0 Major release - January 19, 2017

#### New features:

- Central Server Mirroring (Only supported in the Global edition)
- Advanced UI implementation for Video Wall control (Only supported in the Global edition)
- Automated server configuration backup
- Manual configuration backup and restore wizard using automatically or manually created restore points
- Copy/burn ability from Library to another folder/drive/CD/DVD
- Shared Layouts and User buttons added under Premier version
- SNMP trap support under Events & Actions
- 'Fallback' and 'Read only' storage functionality
- Audio transmission to ONVIF devices
- Added audio support for ONVIF Edge recording
- Advanced account security policy
- Search by image and by tags for Face recognition
- Software VCA metadata overlay on Live view and Archive video
- Substream support for Software VCA
- 128 forward and backward playback speed added
- "Current recording path" and "Storage Status" added under the Console Monitoring section
- "Anonymous" user account for unauthorized access via HTTP API access for public video streaming
- · New version availability notification
- Added support for Mobile application widgets
- Added support for User buttons under the Mobile application

- Client tree view performance improved so 1000+ resources (channels/groups/layouts etc) can be displayed in panes
- Client application operation via Microsoft Remote Desktop connection





- Reduced start time for servers with more than 100 devices connected
- Improved presets management algorithm (add/remove) via the Client application
- Network storages processing improvement
- Console management improvements

## New Device Support:

- TRENDnet TV-IP342PI, TV-IP343PI, TV-NVR216 models
- Sunell SN-IPR56/40APDN, SN-IPV54/04ZDR/B2.1, SN-IPS56/30CDR/ZSD12 models
- Zavio D6330, B6220, P4320, B6530, D4320, D6520, B6210, B6320, B6520, B6330, B6530, B8520, D6210, D6320, D4211, D4520, D8520, P4520 models
- **Praxis** PP-7141IP 2.8-12, PP-7141IP 2.8-12 AUDIO, PV-7141IP 2.8-12, PE-7142IP 2.8-12, PB-7141IP 3.6, PB-7143IP 2.8-12, PB-7145IP 2.8-12 models
- eVidence Apix MiniBullet / M2 and Apix MiniBullet / M4 models
- Airlive VD-2028 and SD-3030 models
- **Redvision** X-SERIES models
- Dynacom NHQ22-IR model

#### Fixes:

- Replication channels are displayed in web UI (Only supported in the Global edition)
- Client application always remembers passwords
- Incorrect behavior of web client if the server was restarted and web client stayed open
- channel is not saved in a layout if Instant playback is ON
- User password is asked to be entered twice in the Client if the checkbox 'remember password' is not selected
- Unable to disable channel when popup on user button event is configured
- Setup wizard displays failure when trying to change server port on the Recording server
- Client application unlock dialog can be closed by pressing ALT+F4
- Archive playback in web client might fail with multiple servers (Only supported in Global edition)
- PTZ fixes for Dahua IP cameras
- Block Windows controls under Exclusive and Lock application modes

## CORTROL 1.2.0 Major release - October 18, 2016

### New features:

- Added Archive Bookmarks
- Added Archive Smart search
- Added timer/clock event for Events & Actions configurator
- Added variable icons for cameras, user buttons, and links available under map items
- Added an option to export displayed Audit results to a CSV file
- Added Multichannel archive export under one AVI
- Added Multichannel snapshot export under one JPEG
- Added new action type "Write to Audit" with an option to add macros
- Implemented Recording Server remote upgrade for Global edition
- Implemented Console and Client application remote upgrade for Global edition
- Added Servers Client's multicast support
- Added new action type "Trigger HTTP URL" for Events & Actions configurator

- Added Monitor in Console application direct connection for recording servers
- Added ability to save the last activated presets in layout and activate them on layout selection
- Added the ability to change icon colors on the map





- · Added ability to reset Recording server connection settings and connect it to the Central server for the second time
- Added possibility to navigate from instant playback to multi playback
- Preset management improvements (Add/Remove preset) for ONVIF devices
- Mainstream will be displayed by default in the Client application if only one camera is selected (1x1 layout)

### New Device Support:

• N/A

#### Fixes:

- Video bitrate in the Client application is shown only for mainstream
- License activation does not work if Hyper-V installed on the system
- Map markers cannot be 'cached' if Windows display scaling is different from 100%
- Incorrect cameras popup on layouts with locked viewports

# CORTROL 1.1.3 Maintenance release - September 26, 2016

#### New features:

• N/A

### Improvements:

• N/A

### **New Device Support:**

N/A

#### Fixes:

Resolved motion detection issue related to PixelPro series with different firmware revisions

# CORTROL 1.1.2 Maintenance release - September 15, 2016

#### New features:

• N/A

#### Improvements:

- Improved support for External services (LPR, FR)
- Added notification in case Console cannot display video under Motion detector exclusion grid

#### **New Device Support:**

• N/A

- Broken MJPEG settings tab for Generic MJPEG devices
- Unable to open channel properties for some CBC (Ganz) devices due to error The channel is not currently available
- Option 'Change' is broken in the setup wizard the server will not start because services are unregistered.





# CORTROL 1.1.1 Maintenance release - August 23, 2016

### New features:

- Added German and Latvian localization
- Added support for External services (LPR, FR)
- Two-way audio support under mobile application

#### Improvements:

- Default command mapping for DCZ keyboard
- Video streaming from Android and iOS devices

### **New Device Support:**

• Evidence APIX- MiniBullet / M2 36 and MiniBullet / M4 36 models

#### Fixes:

- Substream icon in the Client application is not available if the channel is displayed more than one time
- Unable to playback archive without video tracks
- Client application loses grid in live view when changing primary window display
- Server initialization fails in case incomplete previous configuration is available
- Motion detection exclusion grid operation with Free license servers
- Unable to send Layout to Videowall from Events & Actions configurator (Global edition)
- Unable to create more than one replication channel because the title cannot be changed (Global edition)

# CORTROL 1.1.0 Major release - July 18, 2016

#### New features:

- Edge Recording Support (via ONVIF profile G)
- LPR and FR support. CBC versions of LPR and FR will be available within the next week
- AD and LDAP support. Live data and archive navigation
- Watermarking for recorded video/frames and exported. Include Watermark validator
- PTZ control priority per each user account
- Chromecast support. Available via iOS and Android applications
- Video & Audio streaming from Phones and Tablets to CORTROL Servers.
  - o Available via iOS and Android applications

### Improvements:

• Many UI and performance improvements and optimizations.

## New Device Support:

• N/A

#### Fixes:

• N/A

#### Notes:

- Requires an uninstall of release 1.0.0.
- 1.1.0 will migrate configuration and pickup existing license key.
- Global reactivation is required (using the same key) in case the feature "External Services" is disabled.

