

# CORTROL Release Notes

## V1.16.0 rev 2.9

### **CORTROL 1.16.0 Major release** **February 14, 2020**

#### **Note:**

- **CORTROL: Allows upgrading of older installation - CORTROL version 1.3.x, and newer**
- **CORTROL License Server (Premier/Global): “NOT” backward compatible with older installations**
- **CORTROL Management Console: Not compatible with older versions of CORTROL License Server**
- **CORTROL Client: Compatible with 1.16.x, and older versions of CORTROL License Server**
- **Recommended for use migrating from older CORTROL License Server versions to latest version only**

#### **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 channel to Sequence Explorer
- Client application: Viewport button to send 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 Client application
- Events & Actions: Conditions allow saving conditions and indicator states after a server restart
- Bookmark improvements: pre-configurable colors and severity levels
- Client application: Selection of Pop-up for Channels/Maps, and Layouts at the same time
- Implemented additional action and events for Keri access control
- Localization improvements for Polish, German, Italian and Turkish languages
- Multi-Monitor Instant Playback support for ‘Go to Playback’ button send to Playback
- Significant playback and instant playback improvements (performance optimization, fully reworked timeline)

#### **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 doesn’t check related rule

### CORTROL 1.15.1 Maintenance release December 19, 2019

#### Note:

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- **CORTROL Client:** Compatible with 1.15.x, and older versions of CORTROL License Server
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#### New features:

- Added to Client Administration Tool, Option to hide;
  - Local layouts
  - Local layout templates
  - Layout sequences
  - 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

#### Fixes:

- Archive Backup Wizard: Renamed channels streams shown with previous channel name

### CORTROL 1.15.0 Major release November 8, 2019

#### Note:

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#### New features:

- Support for Gallagher Command Centre access control
- Support for Visual Access Systems (GSF Corporation) access control
- Support for Camio services ([www.camio.com](http://www.camio.com)):
  - Video streaming to Camio Box, live event receive, archive navigation by Camio events
- Support for multi-level visual groups
- External Service support on Recording Servers\*
- Assign a recording server for video wall management\*
- 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 Console application

## Improvements:

- 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 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 own 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 Client application
- Selecting correspond channel when selecting bookmark or VCA event (in multichannel playback view)
- Removing view port selection on Escape button
- Minor Console interface improvements
- Added Client usability setting 'External Service event background opacity'

*\*The related functionality is only supported in CORTROL Global edition*

## Support for new cameras added:

- 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 event – 'Bookmark popup confirmed'

## CORTROL 1.14.1 Maintenance release

October 4, 2019

## Note:

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- **CORTROL Client: Compatible with 1.14.x, and older versions of CORTROL License Server**
- **Recommended for use migrating from older CORTROL License Server versions to latest version only**

## New features:

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

## Improvements:

- Allow different layouts for live and playback modes in 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 '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)

### Support for new cameras added:

- Hik Vision 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 same time

### CORTROL 1.14.0 Major version

August 13, 2019

### Note:

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### New features:

- Client Video Wall: Composite screen (tiles)\*
- 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 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
- Console > Monitoring: New Parameters
  - Main/Sub Stream Codec & GOP Size, Main/Sub/Edge Stream Storage, Device Model, Motion Detection Mode, Frame Cache, IP, Port
- Russian localization improvements

### Support for new cameras added:

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

### Fixes:

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

\*The related functionality is only supported in Ganz CORTROL Global edition

### CORTROL 1.13.1 Maintenance version July 01, 2019

#### Note:

- **CORTROL: Allows upgrading of older installation - CORTROL version 1.3.x, and newer**
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- **CORTROL Management Console: Not compatible with older versions of CORTROL License Server**
- **CORTROL Client: Compatible with 1.13.x, and older versions of CORTROL License Server**
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#### New features:

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

#### Improvements:

- 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 models:
  - Apix – Box / M2 (II), Apix – Box / S2 SFP Expert, Apix – Box / M12 SFP, Apix – VDome / E8 EXT 2812 AF, Apix – Bullet / M2 2812 (II), Apix – Bullet / M4 2812 AF, Apix – 10ZBullet / S2, Apix – 22ZBullet / S2 SFP, Apix – FishEye / M12 EXT (II) rev.2, Apix – 22ZDome / M2 (II), Apix – 22ZDome / S2 LED SFP, Apix – 33ZDome / S2 LED, Apix – 33ZDome / S2 LR, Apix – 38ZDome / S2 LED SFP, Apix – 44ZDome / S2 LED, Apix – 22ZDome / M12 LED, Apix – Bullet / M8 2812 AF

### Support for new cameras added:

- 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), Apix – Box / M12 SFP, Apix – MiniBullet / M2 40 (II), Apix – Bullet / M2 2812 (II), Apix – FishEye / M12 EXT (II) rev.2, Apix – 22ZDome / M2 (II), Apix – 38ZDome / S2 LED SFP, Apix – 44ZDome / S2 LED, Apix – 22ZDome / M12 LED
- Axis: M3027
- Advantech: ADAM-6066

### Fixes:

- Vivotek Driver: Possible memory leak when applied CORTROLVCA licenses expire
- Video overlays: Displayed but not operational after DPTZ is disabled and DPTZ controls mode is set as 'always on/on if selected'
- eVidence Apix-Bullet/M4: Camera-side motion detection stops working when HTTP digest authentication is enabled
- Grandstream GXV3504 encoder: Changed number of available channels
- Substream: External audio stream not recording when main stream 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

04/30/19

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### New features:

- Heat-map reports in 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 list of recording server\*
- Channel settings: audio, digital inputs/outputs moved to a new tab in Console
- Install upgrade restriction: Recording Servers with higher version then Global Server
- Channel Replication: Receive archives from multiple servers, including failover\*
- 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/Camera Support:

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

\*The related functionality is only supported in CORTROL Global edition

### CORTROL 1.12.1

03/21/19

### Note:

- **CORTROL: Allows upgrading of older installation - CORTROL version 1.3.x, and newer**
- **CORTROL License Server (Premier/Global): "NOT" backward compatible with older installations**
- **CORTROL Management Console: Not compatible with older versions of CORTROL License Server**
- **CORTROL Client: Compatible with 1.12.x, and older versions of CORTROL License Server**
  - **Recommended for use migrating from older CORTROL License Server versions to latest version only**

### 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 system upgrade with large number of recording servers on 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/Camera Support:

- TVT: TD-9342E2, TD-9441E2, TD-9442E2, TD-9443E2, TD-9444E2, TD-9446E2, TD-9541E2, TD-9542E2, TD-9543E2, TD-9544E2, TD-9545E2, TD-9547E2, TD-9352E2, TD-9451E2, 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-9451S2, TD-9452S2, TD-9551S2, TD-9554S2, TD-9555S2, TD-9451S2A, TD-9554S2A, TD-9481S2, TD-9482S2, TD-9581S2, TD-9584S2, TD-9482S2, TD-9585S2
- Dahua: DHI-XVR5432L, IPC-HFW5831E-ZE and IPC-HFW4239T-AS
- Hikvision: DS-2CD-2785FWD-IZ2 and DS-2DE-2202I-DE3/W

### 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

01/28/19

### Note:

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### New features:

- Archive calendar: Display data for 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
- Monitoring: Servers and Channels recent errors can be seen
- Permissions support for 'Recent archive interval'
- Recording Schedule: Graphical configuration

### Improvements:

- Archive eraser for network storage
- Client application operation on low resolution displays
- 'Channels' last recording time is displayed in Monitoring section of 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/Camera 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
- Osiris: OS-I2-BET2H-ALS, OS-I-CIN3F-AWSM, OS-I-CIN3F-WSMP, OS-I8-SI2F-ALST-BOX-V2, OS-I1-DEN4F3-0280
  - OS-I2-BEN5M-ALST, OS-I2-BENS2M-ALST, OS-I2-DEN4M-ST, OS-I2-DEN5M-ST, OS-I2-DENS2M-ST
  - OS-I2-EEN5M-ST-BLACK, OS-I2-EEN5M-ST, OS-I4-BEN4F-AEST-0360, OS-I4-BEN8F-AELST-0280-V2
  - 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
  - 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
  - OS-NVR16F16P-5H2LE-4K2, OS-NVR16M16-4H1-4K, OS-NVR24F24P-5H4L-4K, OS-NVR4F4P-4H2L-4K
  - OS-NVR4M4P-4H1-4K, OS-NVR64PD-6H8L-4K, OS-NVR8F8P-4H2L-4K, OS-NVR8M8P-4H1-4K
  - 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
- TRENDnet: TV-NVR408, TV-NVR416, TV-IP460PI, TV-IP344PIv2, TV-IP345PIv2, TV-IP328PI, TV-IP329PI models
- Dahua: DHI-XVR4116HS DVR

### Fixes:

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

### CORTROL 1.11.1

12/05/18

### Note:

CORTROL version 1.11.x upon installation will upgrade existing installations from version 1.3.x of CORTROL and up.

- **CORTROL License Server 1.10.x is "NOT" backward compatible with older installations of CORTROL License Server**
- **1.11.x Client can connect to 1.10.x server or older (Not recommended as normal. Ok when migrating from older versions)**
- **1.11.x Console will not connect to a 1.10.x server or older**
- **1.10.x or older Client, and or Console, will not connect to a 1.11.x server**

### New features:

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



### Improvements:

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

### New Device/Camera 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
- Siquira/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

010/19/18

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- **1.11.x Console will not connect to a 1.10.x server or older**
- **1.10.x or older Client, and or Console, will not connect to a 1.09.x server**

### New features:

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

### Improvements:

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

### New Device/Camera Support:

- Louroe Digifact-TM audio device with analytic support
- Hikvision DS-2CD2342WD-I, DS-2CD2420F-I, DS-7616NI-K2 models
- eVidence Apix – 30ZBox / M4 (Edge), Apix – 33ZBox / M3 (Edge), Apix - VDome / M1 3312, Apix - FishEye / E6 EXT, Apix - Bullet / E2 WDR 2712 AF models
- XYCAM 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, AD10-53V12NIL-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-Heater, AN10-43Z4NIL-P, AN-43V50NIL-P, AN-53V12NIL-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
- Telefunken VSC-0810a
- Axis D2050-VE radar

### Fixes:

- Hikvision DS-2CD2420F camera side motion detection initialization
- Axis 240Q 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 upgrade from versions older than 1.9
- High bit rate video streaming freeze for mobile and web applications

### CORTROL 1.10.1

07/23/18

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- **1.9.x or older Client, and or Console, will not connect to a 1.10.x server**

### 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 console application
- Added option in Monitor application to select default DPTZ mode (Region/PTZ)
- Added possibility to record Motion, Audio and VCA data streams with sub stream
- Added option in Monitor application to select how to activate channel via map (single or double click)

### New Camera Support:

- N/A

**Fixes:**

- Fixed individual amount quota (GB) for channel
- Investigation player can't 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 not continue after connection established again

**CORTROL 1.10.0**

07/23/18

**Note:**

CORTROL version 1.10.x upon installation will upgrade existing installations from version 1.3.x of CORTROL and up.

- **CORTROL License Server 1.10.x is "NOT" backward compatible with older installations of CORTROL License Server**
- **1.10.x Client can connect to 1.9.x server or older (Not recommended as normal. Ok when migrating from older versions)**
- **1.10.x Console will not connect to a 1.9.x server or older**
- **1.9.x or older Client, and or Console, will not connect to a 1.10.x server**

**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 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:
  - Service level (Status) indicator under Monitoring section
  - Number of selected items under Monitoring section
  - External service: Related resources (list of channels used)
  - Full list of external services, including disconnected services

**New Camera Support:**

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

**Fixes:**

- PTZ may stop working in Client when removing or adding a channel from layout
- Mobile application won't receive events from server if a user/group or target channel is not specified in 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

06/13/18

#### Note:

CORTROL version 1.9.x upon installation will upgrade existing installations from version 1.3.x of CORTROL and up.

- CORTROL 1.9.x is “NOT” backward compatible with CORTROL 1.8.x or older installations
- 1.9.x Client can connect to 1.8.x server or older (Not recommended as normal. Ok when migrating from older CORTROL)
- 1.9.x Console will not connect to a 1.8.x server or older
- 1.8.x or older Client, and or Console, will not connect to a 1.9.x server

#### 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 color selector for icon title on map
- Added video statistics (frame rate, resolution and codec) for playback mode in Client application
- Added improvements for ONVIF driver
- Changed storage configuration so that local disks can be also removed and added manually

#### New Camera Support:

- N/A

#### Fixes:

- Enabling audio on some devices may result in error – ‘invalid video frame format’
- Server doesn’t 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

04/19/18

#### Note:

CORTROL version 1.8.x upon installation will upgrade existing installations from version 1.3.x of CORTROL and up.

- CORTROL 1.8.x is “NOT” backward compatible with CORTROL 1.7.x or older installations
- 1.8.x Client can connect to 1.7.x server or older (Not recommended as normal. Ok when migrating from older CORTROL)
- 1.8.x Console will not connect to a 1.7.x server or older
- 1.7.x or older Client, and or Console, will not connect to a 1.8.x server

#### New features:

- Encryption support for client-server communication and server databases
- Support for Keri Systems Doors.NET access control:
  - Live statuses, Archive navigation, Cardholders’ information, Events & Actions
- OPC Client functionality support under Events & Actions
- Toggling between Local/UTC/Server time in Monitor 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 map
- Video files (AVI, MP4, MKV) export via HTTP API

### 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
- Option 'Configuration import from database' now automatically upgrade imported DB in case of version mismatch

### New Camera Support:

- N/A

### Fixes:

- ONVIF cameras may take long to initiate
- Fixed video display issue in Monitor application on Intel latest Xeon processors
- Synchronization of LDAP users may fail if some characters in domain name are uppercase
- Portable player unable to playback MPEG4 stream in MP4 container
- Watermark Validator showing 'Sequence error' when checking video which was exported with a gap due to server restart

### CORTROL 1.7.1

03/02/18

### Note:

CORTROL version 1.7.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.7.x is "NOT" backward compatible with CORTROL 1.6.x or older installations**
- **1.7.x Client can connect to 1.6.x server or older (Not recommended as a normal. Ok when migrating from older CORTROL)**
- **1.7.x Console will not connect to a 1.6.x server or older**
- **1.6.x or older Client, and or Console, will not connect to a 1.7.x server**

### 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 user name case insensitivity for AD/LDAP accounts
- Implement an option to specify domain name in server settings to simplify user login from CORTROL Client
- Restore playback speed after 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 Camera 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 video stream from Bosch NDP5502-Z30L
- Archive statistics do not show updated channel names

### CORTROL 1.7.0

01/18/18

### Note:

CORTROL version 1.7.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.7.x is "NOT" backward compatible with CORTROL 1.6.x or older installations**
- **1.7.x Client can connect to 1.6.x server or older (Not recommended as a normal. Ok when migrating from older CORTROL)**
- **1.7.x Console will not connect to a 1.6.x server or older**
- **1.6.x or older Client, and or Console, will not connect to a 1.7.x server**

### New features:

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

### Improvements:

- 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 database)
- Improvements for Samsung devices with new firmware

### New Camera 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-2H85FWD-IZS, DS-2CD-2T85WD-x

### Fixes:

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

### CORTROL 1.6.1

12/19/17

#### Note:

CORTROL version 1.6.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.6.x is “NOT” backward compatible with CORTROL 1.5.x or older installations**
- **1.6.x Client, and or Console will not connect to a 1.5.x server or older**
- **1.5.x or older Client, and or Console, will not connect to a 1.6.x server**

#### New features:

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

#### New Camera 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 Monitor application while exporting archive data in MKV
- Motion detection fix for Dahua devices with old firmware

### CORTROL 1.6.0

10/27/17

#### Note:

CORTROL version 1.6.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.6.x is “NOT” backward compatible with CORTROL 1.5.x or older installations**
- **1.6.x Client, and or Console will not connect to a 1.5.x server or older**
- **1.5.x or older Client, and or Console, will not connect to a 1.6.x server**

#### New features:

- Added archive backup wizard
- Added VCA reports in the Monitor application
- Added Archive Calendar for playback mode in the Monitor application
- Added extended list of user permissions and audited events
- Added new actions in the Event & Action configurator: “Display event in 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 Monitor application to mobile applications on remote mobile devices

### Improvements:

- Added possibility to decode only the currently maximized viewport in playback mode
- Improved behavior in multichannel archive navigation when moving along the timeline with 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 Monitor application with parameters using command prompt
- Added periodical mode for 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 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 Camera 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 Monitor 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 ‘No archive tracks’ node is visible when channel has tracks and located 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 Monitor 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

09/01/2017 – Released

### Note:

CORTROL version 1.5.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.5.x is “NOT” backward compatible with CORTROL 1.4.x or older installations**
- **1.5.x Client, and or Console will not connect to a 1.4.x server or older**
- **1.4.x or older Client, and or Console, will not connect to a 1.5.x server**



### New features:

- Added edge recording support for UDP devices.
- Added edge recording support for PixelPro GXi devices.
- Implemented VCA events support for Dahua cameras

**Note:** Event based edge recording support; No compatibility for constant edge recording.

### Improvements:

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

### New Camera 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, Apix – Compact / M2 28 WiFi, Apix – Box / E4, Apix – Box / E8, Apix – MiniDome / E2 21, Apix – MiniDome / E4 21, Apix – Dome / E2 WDR 2712 AF, Apix – Vdome / S2 WDR 2712 AF, Apix – Vdome / E4 2712 AF, Apix – Bullet / E4 2712 AF, Apix – FishEye / E6 ICM Industrial, Apix – FishEye / E6 ICM Industrial, Apix – 12ZDome / E3 EXT, Apix – 22ZDome / E2 LED EXT, Apix – 30ZDome / E3 LED EXT, Apix – Thermal / CIF 08, Apix – Thermal / CIF 15, Apix – Thermal / CIF 25, Apix – Thermal / CIF 35, Apix – Thermal / CIF 50, Apix – Thermal / CIF PTZ 22×25, Apix – Thermal / CIF PTZ 22×35, Apix – Thermal / CIF PTZ 22×50, Apix – Thermal / CIF PTZ 22×100, Apix – Bullet / M2 2812, Apix – Bullet / M4 2812 AF models
- **Foscam** FI9900EP model
- **Airlive** BU-3128 model

### Fixes:

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

### CORTROL 1.5.0

07/13/2017 – Released

### Note:

CORTROL version 1.5.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.5.x is "NOT" backward compatible with CORTROL 1.4.x or older installations**
- **1.5.x Client, and or Console will not connect to a 1.4.x server or older**
- **1.4.x or older Client, and or Console, will not connect to a 1.5.x server**

### New features:

- Added Geo-maps
- Added External data sources. Data receive from third party systems (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 Monitor application UI controls
- Added channel online/offline status in Monitor 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 Console application
- Added option to prefer Substreams in playback mode instead of main stream
- 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 monitor application
- Added option to export multiple video with audio streams
- Added option to hide summary playback timeline outline

### Improvements:

- Added option to assign user buttons for channel in Console application
- Added option to stop video decoding for minimized client application
- Added option to display an image of FR recognition result in live view notification panel
- Added an 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 of Watchdog activity
- Added HTTP API URI for channel monitoring
- Added events under HTTP API: motion, video lost, recording error

### New Camera 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, IPC3612ER3-PF, IPC2224SR5, IPC322SR3, IPC2322EBR-DPZ, IPC3234SR3-DVZ, IPC3234SR3-DVZ, IPC314SR, IPC312SR
- **eVidence:** Apix - 22ZDome / S2 LED SFP, Apix - 33ZDome / S2 LED, Apix - 33ZDome / S2 LR, Apix - Box / S2 SFP, Apix - Box / S2 SFP Expert, Apix - VDome / E8 EXT 2812 AF, Apix - MiniBullet / M2 36, Apix - MiniBullet / M4 36, Apix - Bullet / E8 2812 AF, Apix - 10ZBullet / S2, Apix - 22ZBullet / S2 SFP, Apix - FishEye / M12 EXT (II), Apix - CeilingTube - S2, Apix - WallMount - S2, Apix - CornerPlate - S2, Apix - TubePlate - S2, Apix - TubePlate - S
- **Canon:** VB-S30VE, VB-S800VE, VB-S910F models
- **Axis:** P3707-PE
- **Airlive:** BU-2015

### Fixes:

- Monitor application may crash if was opened via RDP and then displayed on real monitor
- Black screen in Monitor 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 Monitor application modes
- Fixed MPEG-4 export for MP4 format
- Duplicated Layout Templates when merging server resources
- Video export not working when channel/track title contain tab character

### CORTROL 1.4.1

05/30/2017 – Released

### Note:

CORTROL version 1.4.x upon installation will upgrade existing installations from version 1.3.x of CORTROL.

- **CORTROL 1.4.x is "NOT" backward compatible with CORTROL 1.3.x or older installations**
- **1.4.x Client, and or Console will not connect to a 1.3.x server or older**
- **1.3.x or older Client, and or Console, will not connect to a 1.4.x server**

### 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 Camera 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)

### Fixes:

- Playback time get lost during switch from instance playback to multiple playback
- Pelco P/D external PTZ: wrong stop command is sent
- Remove “failed export” file removes “original export” file in Monitor application library
- Release includes Russian localization fix.

### CORTROL 1.4.0

04/12/2017 – Released

### Note:

- CORTROL version 1.4.0 upon installation will upgrade any existing installations of older versions of CORTROL.
- **CORTROL 1.4.0 is “NOT” backward compatible with CORTROL 1.3.x or older installations**
  - 1.4.0 Client, and or Console will not connect to a 1.x.x server
  - 1.x.x Client, and or Console, will not connect to a 1.4.0 server

### 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 Monitor application
- Live podcasts are added with RTMP configuration (include streaming to YouTube and Wowza)
- Added multiple (bulk) edit for devices and channels
- Added video frame attachment (Snapshot) for e-mail notifications
- Added automatic archive bookmarks with an option for user acknowledge request
- Added new action ‘Send Event to Client’ under Events & Actions configurator: sound and push notifications
- Added hardware usage information under Monitoring in Console application
- Critical errors highlighted under Monitoring in Console application
- Tooltips are added in Monitor application
- Added Polish language support

### Improvements:

- Collapsible search criteria in Monitor application
- Added multiple user buttons per single view port in Monitor application
- **Added an option to open view port notifications pane on Video Wall monitor\***
- Added links to user manuals in the main menu of Console and Monitor applications
- **Added an option for Recording Server configuration manual reset via Console application\***
- Added a notification message in Console application in case some of edited fields miss mandatory data
- MxPEG archive export for MP4 container
- New Camera 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

### 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
- **Replication channels are displayed in Monitor Application Live mode when default shortcut Ctrl+Shift+A (Map all screens) is used\***
- 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 Monitor application for HC boards
- RTSP audio does not work in Custom Config driver
- E&A Send HTTP request action: redundant spaces are removed automatically

\*The related functionality is only supported in CORTROL Global edition

### CORTROL 1.3.1

02/23/2017 – Maintenance Release

**Note: Install new CORTROL 1.3.1, it will upgrade existing installation of CORTROL 1.3.0.**

- CORTROL 1.3.1 is backward compatible with CORTROL 1.3.0 installations
  - 1.3.1 Client, and or Console will connect to a 1.3.0 server
  - 1.3.0 Client, and or Console, will connect to a 1.3.1 server
- **CORTROL 1.3.1 is “NOT” backward compatible with CORTROL 1.2.x nor 1.1.x installations**
  - 1.3.1 Client, and or Console will not connect to a 1.x.x server
  - 1.x.x Client, and or Console, will not connect to a 1.3.1 server

### New features:

- Added support for UDP Technology camera side meta data overlay during video live view and playback
- Added support for PixelPro GXi camera side meta data overlay during live video view and playback
- Supported meta data seen in overlay
  - Objects
  - Non-Alarmed Objects
  - Speed
  - Hight
  - Area
  - Class
  - Identifier

### Improvements:

- Optimized server interaction with multi-channel devices

### New Camera Support:

- Robotix X5 series

### Fixes:

- Client buttons overlap when using minimal window size
- Failover node role is not removed from the Recording server configuration after setting change **(Global Only)**
- Error when opening Monitoring section in the Organization view **(Global Only)**
- iSCSI storage re-initiation after connection restored
- Video streaming from 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**

01/19/2017 - Released

#### **Note: CORTROL 1.x.x uninstall, installed CORTROL 1.3.0**

- **CORTROL 1.3.0 is "NOT" backward compatible with CORTROL 1.x.x installations**
  - 1.3.0 Client, and or Console will not connect to a 1.x.x server
  - 1.x.x Client, and or Console, will not connect to a 1.3.0 server

#### **New features:**

- Central Server Mirroring (*Only supported in Global edition*)
- Advanced UI implementation for Video Wall control (*Only supported in 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 meta data 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 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 Mobile application

#### **Improvements:**

- Monitor application treeview performance improvement so 1000+ resources (channels/groups/layouts etc) can be displayed in panes
- Monitor 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 Monitor application
- Network storages processing improvement
- Console management improvements

#### **New Camera 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 Global edition*)
- Monitor application always remembers passwords
- Incorrect behavior of web client if 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 Monitor application if 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 Recording server
- Monitor 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

10/18/2016 - Released

### Note: CORTROL 1.1.x installations can be upgraded to CORTROL 1.2.0

- **CORTROL 1.2.0 is "NOT" backward compatible with CORTROL 1.1.x installations**
  - 1.2.0 Client, and or Console will not connect to a 1.1.x server
  - 1.1.0 Client, and or Console, will not connect to a 1.2.0 server

### 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 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 monitor application remote upgrade for Global edition
- Added Servers - Clients multicast support
- Added new action type "Trigger HTTP URL" for Events & Actions configurator

### Improvements:

- 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 ability to change icon colors on map
- Added ability to reset Recording server connection settings and connect it to 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
- Main stream will be displayed by default in Monitor application if only one camera is selected (1x1 layout)

### Fixes:

- Video bitrate in Monitor application is shown only for main stream
- License activation doesn't 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**

09/26/2016 - Released

#### **New features:**

- N/A

#### **Improvements:**

- N/A

#### **Fixes:**

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

### **CORTROL 1.1.2**

09/15/2016 - Released

#### **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

#### **Fixes:**

- 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 setup wizard – server won’t start because services are unregistered.

### **CORTROL 1.1.1**

08/23/2016 - Released

#### **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

#### **Fixes:**

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

**Notes:**

- \*The related functionality is only supported in CORTROL Global edition

**New Camera Support:**

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

**CORTROL 1.1.0**

07/18/2016 - Released

**New features:**

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

**Improvements:**

- Many UI and performance improvements and optimizations.

**Fixes:**

- N/A

**Notes:**

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

**New Camera Support:**

- N/A

**CORTROL 1.0.0**

04/04/2016 - Released

**New features:**

- N/A

**Improvements:**

- N/A

**Fixes:**

- N/A

**Notes:**

- N/A

**New Camera Support:**

- N/A