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| Manual video archive backup (replication)  Smart replication based on the channel alerts File-by-file or frame-by-frame replication (continuous VS smart/partial recording)  Recording profiles – constant, by motion, by event, low FPS Recording schedules Custom (user) calendars Emergency recording Storage configuration: directories, quotas, retention, fallback Fallback storage (failover storage within server)  Multiple network support Multicast support for selected devices Multicast support for server-client connections RTSP, HTTP, HTTPS, Modbus, native protocols for devices Configurable TCP and HTTP, HTTPS ports  Not available Available Available Available Available Available Available Available Available  |      | rdin   |  |                 |                |  |
| Manual video archive backup (replication)  Smart replication based on the channel alerts File-by-file or frame-by-frame replication (continuous VS smart/partial recording)  Recording profiles – constant, by motion, by event, low FPS Recording schedules Custom (user) calendars Emergency recording Storage configuration: directories, quotas, retention, fallback Fallback storage (failover storage within server)  Multiple network support Multicast support for selected devices Multicast support for server-client connections RTSP, HTTP, HTTPS, Modbus, native protocols for devices Configurable TCP and HTTP, HTTPS ports  Not available Available Available Available Available Available Available Available Available  |      | 3ecc   | Archive index recording using NTFS transactions (optional)                                   |                 |                |  |
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| File-by-file or frame-by-frame replication (continuous VS smart/partial recording)  Recording profiles – constant, by motion, by event, low FPS  Recording schedules  Custom (user) calendars  Emergency recording  Storage configuration: directories, quotas, retention, fallback  Fallback storage (failover storage within server)  Multiple network support  Multicast support for selected devices  Multicast support for server-client connections  Multicast support for server-client connections  Available  RTSP, HTTP, HTTPS, Modbus, native protocols for devices  Configurable TCP and HTTP, HTTPS ports   |      |  |  | Not available   | Available      |  |
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|                      | CORTROL software feature   | es by edition               | (v1.32 Nov               |
|----------------------|--|-----------------------------|--------------------------|
| Category             | Functionality  | Premier                     | Global                   |
|                      | Channel replication: extra archive copy Unlimited number of replicas for each channel  |                             |                          |
|                      | Different storage or server destinations for each replica  Configurable replication offset (days to go back)   |                             |                          |
| Redundancy           | Failover servers: move configuration to another server in case of emergency Failover servers: 1-to-1, 1-to-N, N-to-1   |                             |                          |
| dunc                 | Failover clusters: unlimited number  | Not available               | Available                |
| & &                  | Automatic or manual server replacement Automatic or manual server recovery   |                             |                          |
|                      | Configurable failover and recovery timeout Central server mirror: failover for the central management server   |                             |                          |
|                      | Client auto re-connect to mirror and recording servers (direct)  |                             |                          |
|                      | Video walls and external services: centralized or directly on recording server  Per-server CVA Video Analytics (CVA) license   | 1 free chann                | el per license           |
|                      | Built-in VA engines based on neural networks Performance- and accuracy-oriented VA models  |                             |                          |
|                      | Accuracy vs performance settings to adjust hardware load   | Avai                        | lable                    |
|                      | Runs on Intel and AMD CPU CUDA (NVIDIA), Intel, and ADM GPU computing support  |                             |                          |
|                      | VA for any and virtually unlimited number of channels  Real-time object detection and classification   | Only limited                | by hardware              |
|                      | Metadata overlay for live video and playback   |                             |                          |
| (c)                  | E&A events for new VA object detection CVA visual controls zones, lines, counters (configuration and Client display)   |                             |                          |
| ä                    | CVA: zone rules (enter/appear, exit/disappear) CVA: counting line (crossed AB, BA, any direction)  |                             |                          |
| CVA                  | CVA: zone counters (current number of objects in the zone) CVA: use software counters for counter and zone rules   |                             |                          |
| tics (               | CVA: zone settings (object presence/absence, intersection threshold)   |                             |                          |
| Video Analytics (CVA | Server-side video analytics for any video channel  Detection and non-detection zones   |                             |                          |
| deo A                | Region of interest with multiple polygon ROI support Counters  | Ava                         | lable                    |
| Ν                    | Object classification: vehicles, persons, animals  |                             |                          |
|                      | Configurable object presence/absence thresholds Adjustable object intersection threshold (per zone/line)   |                             |                          |
|                      | Automatic reports (PDF) based on VCA counters  Manual reports in client application  |                             |                          |
|                      | Support for camera-side video analytics  |                             |                          |
|                      | Support for ONVIF camera-side video analytics with metadata video overlay Support for custom generic ONVIF event setup based on ONVIF communication                              |                             |                          |
|                      | Import and export for the user-defined ONVIF notification events Separate database for VA events and counters  |                             |                          |
|                      | Separate database for external recognition result history (from 3rd party sources)   |                             |                          |
|                      | Dedicated configuration application Unified interface for all editions   | Ava                         | lable                    |
|                      | Touchscreen friendly interface (no right-clicks or hidden menus)  All changes immediately applied and saved into the configuration database                                      |                             |                          |
|                      | Local and remote server management Centralized management of multi-server systems  | Available<br>Not applicable | Centralized<br>Available |
| Φ                    | Secure user login using 2FA (two-factor authentication) via email or SMS   | ινοι αρριιοασίο             | Available                |
| erface               | Login using external authentication providers - Oauth 2.0 (Google, Microsoft, Apple, Okta, generic)  Quick setup wizard (contents depends on edition)                            |                             |                          |
| ng.                  | Configurable columns per resource (show/hide, order) Freeze columns for convenient horizontal scrolling  |                             |                          |
|                      | Show/hide Folder functionality (application-wide)  | Ava                         | lable                    |
|                      | Show/hide Folders' tree Show/hide internal object IDs (for API calls)  |                             |                          |
|                      | Text search and object filtering for resource browsing Server login history (choose previous connection from drop-down list)   |                             |                          |
|                      | Update plan subscription expiration notifications  |                             |                          |
|                      | Encryption for all databases and archive Encryption for all connections  |                             |                          |
|                      | 128- and 256-bit AES encryption for archive and communication Digital certificates: self-signed  | Ava                         | lable                    |
|                      | Digital certificates: customer own (issued by authority) Folders (hierarchical resource structure for access management via Console)   |                             |                          |
|                      | Folders: sub-admin roles based on location or other properties   | Not available               | Available                |
|                      | Folders: administration access virtualization Folders: full resource administration or read-only rights  |                             |                          |
|                      | Resource grouping (for all resources) Nested groups (multi-level grouping)   | Ava                         | lable                    |
|                      | Internal user accounts   | Available                   | Centralized              |
|                      | Option to disable user accounts at a specific time and date Option to enable user accounts at a specific time and date   |                             |                          |
|                      | Use schedules and user calendars for user/user group login  Option to auto-disconnect user sessions if: disabled or password/token expired                                       |                             |                          |
| Security             | AD (Active Directory) and LDAP support (external user import)  | Ava                         | lable                    |
| Se                   | Automatic (synchronization) or manual management of AD users 2-factor authentication (2FA) for Console and Client login  |                             |                          |
|                      | OAuth 2.0 (Google, Microsoft, Apple, Okta, generic) for Console and Client login Cybersecurity dashboard (settings' summary)   |                             |                          |
|                      | Cybersecurity report   | Per server                  | Centralized              |
|                      | Advanced and detailed permissions for all resources and all users Flexible administration access permissions   |                             |                          |
|                      | Individual and per-group permissions PTZ priorities for users and user groups  |                             |                          |
|                      | Server security policies   |                             |                          |
|                      | Audit log for server events and user actions Flexible audit policy   | Ava                         | lable                    |
|                      | Save audit to external DB (PostgreSQL, MySQL, Microsoft SQL Server)  NTP server settings (tyme synchronization) time?  |                             |                          |
|                      |  |                             |                          |
|                      | Global permission to remove archive (disabled by default)  |                             |                          |
|                      | Global permission to remove archive (disabled by default) Remove archive protection Separate access to recent archive (configurable interval) Configuration import from database |                             |                          |

| Continued of the Cont   |      | CORTROL software features by edition |   |                              |                               |  |
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| Map markers, security terms   Available  | ligu |                                      |   |                              |                               |  |
| Map markers, security terms   Available  | , ou |                                      |   |                              |                               |  |
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| Map markers, security terms   Available  | lost |                                      |   |                              |                               |  |
| Control cases and special tiles with indicators a use indicator color for alerts  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers within the map  Map markers: copy and paste configured markers  Multi-layer maps (predictate of the copy and th | S    |                                      | Map markers: channel markers with view area                   |                              |                               |  |
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| Multi-layer maps (interlinked) Control panels: monitoring dashboards (row view) Server monitoring: ordinalofiline servers/chamels, server resource usage Control panels: monitoring: voido loss time User buttons: interlactive (clickabin) Indicators: climis status, video loss time Conditions (EAR): ONOFF (interactive) Conditions (EAR): O |      |                                      |   |                              |                               |  |
| Server monitoring contine/dolfline servers/channels, server resource usage    Server monitoring contine/dolfline servers/channels, server resource usage   Conditions (EAA) ONOFF (interactive) (clickable)   Available (beta), per server   |      |                                      |   |                              |                               |  |
| Channels: online status, video loss time    Counters and variables: value   Available (beta), per server   |      |                                      |   |                              |                               |  |
| Tabulations (EAR) OWOFF (Interactive) Counters and variables, value Map markers (shortcust to control panels) Separate permission to view and to execute related interactive actions Uses publications (EAR) owners buttons for actions triggering Link user buttons buttons buttons for actions triggering Link user buttons buttons buttons for many and got not integering Link user buttons buttons buttons for many and got many and the second of the property of the pr |      | 8                                    |   |                              |                               |  |
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| Map markers (shortcuts to control panels) Separate permission to view and to execute related interactive actions  User buttons: software buttons for action triggering User buttons: software buttons for action triggering User button markers for maps and geo maps  Available  Available in client application and mobile applications  Interactive live video channels from remote Desktop applications  Recording of remote Web applications  Recording of remote Desktop applications  Recording of re |      | Control F                            |   | Available (beta), per server |                               |  |
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| Section   Sect   |      |                                      |   |                              |                               |  |
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| Interactive live video channels from remote Web applications Web pages Interactive live video channels from remote Web applications Recording of remote Desktop applications remote Web applications running on Linux/macOS Remote Web applications can be opened as dedicated tabs in the Client appl Remote Web applications can acid Client APP Intentions (pop up live/playback, etc.) Users can save images, video files, and PDF/CSV files from the interactive Web channels Users can save exported video files from CrossLinks (e.g., MVRs) File upload to the CrossLink in the Client application (based on Visual groups) Nested browsing of CrossLink in the Structure via Visual Groups Users can define CrossLink in the Client application (based on Visual groups) Nested browsing of CrossLink in the Structure via Visual Groups Interactive Web channels can produce window popups Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can produce window popups Interactive Web channels can produce window popups Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web c |      | Us<br>Butt                           |   | Ava                          | liable                        |  |
| Interactive live video channels from remote Desktop applications Recording of remote Web applications Recording of remote Desktop applications Frontend integration third-party applications running on Linux/macOS Remote Web applications can be opened as dedicated tabs in the Client app Remote Web applications can call Client API functions (pop up live/playback, etc.) Users can save images, video files, and PDFiCSV files from the interactive Web channels Users can save exported video files from CrossLinks (e.g., NVRs) File upload to the CrossLink webpages Crosslink tab grouping in the Client application (based on Visual groups) Nested browsing of CrossLink is structure via Visual Groups Users can define CrossLink icons for their appearance in the resources and tabs in Client Interactive Web channels can produce window oppus Interactive Web channels can produce window oppus Interactive Web channels can access local media (camera, microphone, screen capture) Interactive Web channels can produce window oppus Interactive Web channels can produce window oppus Interactive Web channels grouping for client application and mobile apps Visual groups: channel grouping for archive backup wizard Visual groups: channel grouping for archive backup wizard Will-layer visual groups (ested, five eview in the client application) Ulve podicasts: stream channel over RTMP Unlimited  Description of the produce window oppus Video (main and substream) and audio over RTSP Video (main and substream) and audio over RTSP Unlimited  Available  Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTILS, SSUTLES ZFA (two-factor authentication) via email  |      |                                      |   |                              |                               |  |
| Recording of remote Desktop applications Frontend integration third-party applications running on Linux/macOS Remote Web applications can be opened as dedicated tabs in the Client app Remote Web applications can be opened as dedicated tabs in the Client app Remote Web applications can call Client API functions (pop up live/playback, etc.) Users can save images, video flies, and PDF/CSV flies from the interactive Web channels Users can save exported video flies from CrossLinks (e.g., NVRS) File upload to the CrossLink bepages Crosslink tab grouping in the Client application (based on Visual groups) Nested browsing of CrossLink tons for their appearance in the resources and tabs in Client Interactive Web channels can produce window popups Interactive Web channels grouping for client application and mobile apps Visual groups: channel grouping for client application and mobile apps Visual groups: channel grouping for client application and mobile apps Visual groups: channel grouping for client application Interactive Web channels can produce window popups Internal groups (nested, tree view in the client application) Internal groups: channel grouping for client application and mobile apps Visual groups: channel grouping for client application Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups (nested, tree view in the client application) Internal groups |      |                                      |   |                              |                               |  |
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| Remote Web applications can be opened as dedicated tabs in the Client app Remote Web applications can call Client API functions (pop up live/playback, etc.) Users can save images, video files, and PDP/CSV files from the interactive Web channels Users can save exported video files from CrossLinks (e.g., NVRs) File upload to the CrossLink betwebages Crosslink tab grouping in the Client application (based on Visual groups) Nested browsing of CrossLink bat structure via Visual Groups Users can define CrossLink is visual Groups Users can define CrossLink visual Groups Users can define CrossLink visual Groups Users can define CrossLink is visual Groups Users can define CrossLink visual Groups Users |      |                                      |   |                              |                               |  |
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| Multi-layer visual groups (nested, tree view in the client application)  Live podcasts: stream channel over RTMP  Stream to YouTube, Wowza, or generic RTMP service  Video and audio over RTMP  Built-in RTSP streaming server  Video (main and substream) and audio over RTSP  Access to RTSP streams with authorization  H.264, H.265, MJPEG over RTSP  Mail servers: configurable, unlimited  For event notifications and automated reports  Report sending via email  Email notifications  Email notification with snapshots from main or secondary stream  Aggregation based on time or number of events  Support for public and own SMTP servers  Security: none, STARTLS, SSL/TLS  2FA (two-factor authentication) via email  T SP Pre-configure short alphanumeric IDs for quick access in Client  |      | sdn                                  |   | Avo                          | ilabla                        |  |
| Multi-layer visual groups (nested, tree view in the client application)  Live podcasts: stream channel over RTMP  Stream to YouTube, Wowza, or generic RTMP service  Video and audio over RTMP  Built-in RTSP streaming server  Video (main and substream) and audio over RTSP  Access to RTSP streams with authorization  H.264, H.265, MJPEG over RTSP  Mail servers: configurable, unlimited  For event notifications and automated reports  Report sending via email  Email notifications  Email notification with snapshots from main or secondary stream  Aggregation based on time or number of events  Support for public and own SMTP servers  Security: none, STARTLS, SSL/TLS  2FA (two-factor authentication) via email  T SP Pre-configure short alphanumeric IDs for quick access in Client  |      | Gro                                  | Visual groups: channel grouping for archive backup wizard     | Ava                          | liabic                        |  |
| Stream to YouTube, Wowza, or generic RTMP service Video and audio over RTMP Built-in RTSP streaming server Video (main and substream) and audio over RTSP Access to RTSP streams with authorization H.264, H.265, MJPEG over RTSP Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  T SP Pre-configure short alphanumeric IDs for quick access in Client   |      |                                      |   | Unlin                        | mited                         |  |
| Access to RTSP streams with autorization H.264, H.265, MJPEG over RTSP  Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  Y 8 Pre-configure short alphanumeric IDs for quick access in Client  |      | б                                    | Stream to YouTube, Wowza, or generic RTMP service             |                              |                               |  |
| Available  Available  H.264, H.265, MJPEG over RTSP  Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  Y 8 Pre-configure short alphanumeric IDs for quick access in Client   |      | min                                  |   | Ava                          | ilable                        |  |
| Available  Available  H.264, H.265, MJPEG over RTSP  Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  Y 8 Pre-configure short alphanumeric IDs for quick access in Client   |      | trea                                 |   | Unlii                        | mited                         |  |
| H.264, H.265, MIPEG over RTSP  Mail servers: configurable, unlimited For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  Y 8 Pre-configure short alphanumeric IDs for quick access in Client   |      | S                                    | Access to RTSP streams with authorization                     |                              |                               |  |
| For event notifications and automated reports Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTLS, SSL/TLS 2FA (two-factor authentication) via email  Y 8 Pre-configure short alphanumeric IDs for quick access in Client   |      |                                      |   | 7174                         |                               |  |
| Report sending via email Email notifications Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email   |      |                                      |   |                              |                               |  |
| Email notification with snapshots from main or secondary stream Aggregation based on time or number of events Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  **  Pre-configure short alphanumeric IDs for quick access in Client   |      |                                      | Report sending via email                                      |                              |                               |  |
| Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  |      | nail                                 |   | Ava                          | ilable                        |  |
| Support for public and own SMTP servers Security: none, STARTTLS, SSL/TLS 2FA (two-factor authentication) via email  > 8 Pre-configure short alphanumeric IDs for quick access in Client   |      | Ε'n                                  |   | Ava                          | IIII                          |  |
| 2FA (two-factor authentication) via email  ★ ፡ #   Pre-configure short alphanumeric IDs for quick access in Client   |      |                                      | Support for public and own SMTP servers                       |                              |                               |  |
| Y 8 Pre-configure short alphanumeric IDs for quick access in Client  |      |                                      |   |                              |                               |  |
|  |      | × ss                                 |   |                              |                               |  |
|  |      |                                      |   | Ava                          | ilable                        |  |

|                           |                             | CORTROL software feature  |                 |                                      |  |
|---------------------------|-----------------------------|---|-----------------|--------------------------------------|--|
| Cate                      | gory<br>© %                 | Functionality Customizable IDs for channels, layouts, user buttons, maps, crosslinks, data channels   | Premier         | Global                               |  |
|                           | S M                         | Support for GSM modems (hardware connected to server)  Event triggered by incoming SMS (text/regex)   |                 |                                      |  |
|                           | GS<br>SM                    | Event triggered by incoming SMS (text/regex) Action to send an SMS message with configurable text   | Avai            | lable                                |  |
|                           |                             | 2FA (two-factor authentication) via SMS Automatic reports from VCA and software counters  |                 |                                      |  |
|                           |                             | Automatic reports based on the External service data  |                 |                                      |  |
|                           |                             | Manage counter's data (remove history from database)  Software counter actions for any event: increment, decrement, reset to 0                      |                 |                                      |  |
|                           | Reports                     | Automatically compile and email daily/weekly/monthly reports  Configurable time range (filter)  | Avai            | lable                                |  |
|                           | Reg                         | Configurable report type (bar, line, pie diagram)   | · · · - ·       |                                      |  |
|                           |                             | Configurable filters for the external service data Health reports based on Audit log problems   |                 |                                      |  |
|                           |                             | Health reports based on user-defined events PDF or CSV file format  |                 |                                      |  |
|                           |                             | Any number of video walls: no additional fees   |                 |                                      |  |
|                           | ဟ                           | No middleware or additional drivers required  Configurable grid (up to 100 displays per video wall)   |                 |                                      |  |
|                           | Wal                         | Remote management   | Not available   | Available                            |  |
|                           | Video Walls                 | Automatic contents assignment (scheduled or popup based on events)  Sync with intercom calls (Commend)  | Not available   | Available                            |  |
|                           | >                           | Tiled video wall: stretch single screen on up to 9 physical displays  Centralized or per-server   |                 |                                      |  |
|                           |                             | No extra load on the server or client machines  |                 |                                      |  |
|                           |                             | Audit policies Keep track of all server events  |                 | lable  Per server and centralized    |  |
|                           |                             | Keep track of all user actions Problems section: highlight critical issues  | Per server      | i di servet anu centranzeu           |  |
|                           |                             | Emailed reports based on problems and user-defined events   | Avai            | lable                                |  |
|                           | Audit                       | Detailed audit for archive access (playback, export, snapshots)  Detailed audit for user login with stating the exact reason for unsuccessful login | 7.113.          |                                      |  |
|                           | ¥                           | Forward all audit events to the pre-defined Syslog server   | Available       | Available, per-server or centralized |  |
|                           |                             | Search audit log Search filters based on time, user, server, resource, or event type  |                 |                                      |  |
|                           |                             | Separate Problems section that highlights important issues Separate database  | Avai            | lable                                |  |
|                           |                             | Export search results into CSV format   |                 |                                      |  |
| g G                       |                             | Live status of all server resources Indications of errors   | Depending on se | erver capabilities                   |  |
| ootir                     |                             | Indications of warnings (low impact errors) with an option to hide  |                 |                                      |  |
| Console (Troubleshooting) |                             | Server status and performance monitoring Device health  |                 |                                      |  |
| qno                       |                             | Channel status, stream properties and setting overview Streams: recording status and destination  | Avai            | lable                                |  |
| Ė                         | Monitoring                  | Archive statistics  |                 |                                      |  |
| lsole                     | lonite                      | Storages: availability, encryption, disk queue CVA: detailed monitoring for built-in video analytics  |                 |                                      |  |
| ទ                         | Σ                           | User sessions, connection type  | Niet englischie | A                                    |  |
|                           |                             | Video wall connections External service connections   | Not applicable  | Available                            |  |
|                           |                             | Reports: status, last/next execution time Access control: door status   | Avai            | lable                                |  |
|                           |                             | OPC connections and status  |                 |                                      |  |
|                           |                             | Indicators: current state Problem report wizard for contacting support engineers  |                 |                                      |  |
|                           |                             | Problem report wizard: typical problems – tree-like reporting Problem report wizard: custom (free-form) problem description                         |                 |                                      |  |
|                           | Tools                       | Problem report wizard: append problem snapshots   | Avai            | lable                                |  |
|                           | ľ                           | Problem report wizard: save report or send automatically Server setup wizard: change server TCP port and name                                       |                 |                                      |  |
|                           |                             | Server setup wizard: reset recording server configuration Remote upgrade (HTTP/HTTPS) and server status/version                                     | Not applicable  | Available                            |  |
|                           |                             | Accept serial text from TCP/UDP/COM   |                 |                                      |  |
|                           | "                           | Accept text from POS systems Split text between multiple channels   |                 |                                      |  |
|                           | Sources                     | Text overlay for any video channel, configurable output   |                 |                                      |  |
|                           | a So                        | Highlight new lines in the data visualization Keywords (variables) for triggering events  | Avai            | lable                                |  |
|                           | Data                        | Data channels: data-only channels for serial text visualization Time series databases optimized for data channels                                   |                 |                                      |  |
|                           |                             | Import data source profiles (including mappings) and databases  |                 |                                      |  |
|                           |                             | Export data source profiles (including mappings) and databases  External services: API integrations   |                 |                                      |  |
|                           | API                         | Camio integration (as external service) FR: face recognition connection   |                 |                                      |  |
|                           | нттР,                       | LPR: license plate recognition connection   | Per server      | Per server or centralized            |  |
|                           | Ī                           | Two-way event and action flow  Receive, store, and search for external metadata (events, objects, attributes, description)                          |                 |                                      |  |
|                           |                             | Dedicated API/SDK and samples for third-party security system integrations  |                 |                                      |  |
|                           |                             | Keri Doors.NET<br>KEEP by Feenics   |                 |                                      |  |
|                           |                             | Gallagher Command Centre Visual Access System (GSF Corporation)   |                 |                                      |  |
|                           |                             | Roger RACS 5  |                 |                                      |  |
| ons)                      | SL                          | Paxton Net2 NEDAP AEOS  |                 |                                      |  |
| grati                     | ation                       | Inner Range Integriti Kantech Entrapass   |                 |                                      |  |
| Inte                      | ntegr                       | SATEL Integrum  |                 |                                      |  |
| ole (                     | em i                        | RISCO fire alarm panels  Doors: events, actions, permissions, map markers   | Per server      | Centralized                          |  |
| Console (Integrations)    | Syste                       | Associate doors with video channels   |                 |                                      |  |
| J                         | ecurity System integrations | Items: security partitions, zones (inputs), and outputs Events from and axtions from partitions, zones, and outputs                                 |                 |                                      |  |
|                           | 9                           | Associate video with security items   |                 |                                      |  |

|                    |                      | CORTROL software features by edition (v1.32   |               |            |
|--------------------|----------------------|---|---------------|------------|
| Cate               |                      | Functionality   | Premier       | Global     |
|                    | S                    | Configurable severity levels for the security systems (12 levels)   |               |            |
|                    |                      | Configurable severity level colors for the item state (armed/disarmed, etc.)  Interactive map markers for all security items              |               |            |
|                    |                      | Access control system events  |               |            |
|                    |                      | Cardholders   |               |            |
|                    |                      | Textual search in the client application  |               |            |
|                    |                      | Event notifications from access control software (status codes)  Actions related to access control (change door status etc.)              |               |            |
|                    |                      | MQTT protocol support   |               | !          |
|                    | MQTT                 | MQTT Client functionality (can add any number of fully functional MQTT clients)   | Ava           | ilable     |
|                    | ž                    | Event triggered based on incoming MQTT message (text/regex)  Action to send MQTT message  |               |            |
|                    |                      | OPC client functionality  |               |            |
|                    | OPC                  | Two-way integration (events and actions)  |               |            |
|                    | 8 0                  | Support for any OPC server software (OPC-DA)  Modbus client functionality   |               |            |
|                    |                      | Read and write single digital input and digital output (DI/DO) values (coils, outputs)  | Per s         | server     |
|                    | Modbus               | HEX mask and Boolean logic support for the event-triggering bit setup   |               |            |
|                    | Σ                    | Read and write multiple DI/DO values (registers)  |               |            |
|                    |                      | Support for any appliances operating via generic Modbus  Automated event-action scenarios   |               |            |
|                    | səl                  | Per-server configuration  |               |            |
|                    | Rule                 | Event & Action Configurator   | Ava           | ilable     |
|                    | ш                    | Quick basic event setup via quick setup wizard Display the list of all rules from all servers   |               |            |
|                    |                      | Central server connected  | N. 4          | A . 7. 1.1 |
|                    |                      | Central server disconnected   | Not available | Available  |
|                    |                      | Single recording error  |               |            |
|                    | ıts                  | Recording recovered Fallback storage activated  |               |            |
|                    | Built-in Events      | Disk excluded from recording  | Ava           | ilable     |
|                    | .⊑                   | Video lost/restored (per channel)   |               |            |
|                    | H.                   | Motion event (present/started/stopped)  Auxiliary device event (for non-video devices like Satel etc.)                                    |               |            |
|                    | В                    | Failover node activated   |               |            |
|                    |                      | Global event (visible to all servers)   | Not available | Available  |
|                    |                      | User button clicked   | Avai          | ilable     |
|                    |                      | Custom channel event (triggered by URL), three for each channel  Digital input state changed  |               |            |
|                    |                      | VCA event (software-side or camera-side)  |               |            |
|                    |                      | Events from external services (LPR, FR recognitions, API events)  |               |            |
|                    |                      | Scheduled event: automatically raise event based on a timetable   | A             | 3-61-      |
|                    | Events               | Scheduled event: automatically raise event every N minutes  Variables: react to certain keywords from data sources (POS or other)         | Ava           | ilable     |
|                    | ΕVE                  | Camera-side variable value  |               |            |
|                    | Configurable         | Software and camera-side counter value  |               |            |
|                    |                      | CVA (CORTROL Video Analytics) counter, zone, or line event  | N. C. T. I.   | A 21.11    |
|                    | nfig                 | Video wall events (video wall state changed)  External events: accept HTTP requests from third party                                      | Not available | Available  |
|                    | ဝိ                   | MQTT event (event triggered by incoming MQTT message)   |               |            |
|                    |                      | Incoming short message event (event triggered incoming SMS)   | Ava           | ilable     |
|                    |                      | OPC server events   | ,             |            |
|                    |                      | Security system and security item events (for zones, partitions, outputs)  Door events from access control integrations                   |               |            |
|                    |                      | Generate alert for main and substream recording (alert based recording)   | Ava           | ilable     |
| Suc                | suc                  | Trigger global event  | Not available | Available  |
| Events and Actions | Default Actions      | Pop up object on screen Pop up playback on screen   |               |            |
| φ                  | ult /                | Set/unset condition   | Avo           | ilable     |
| au                 | efa                  | Change software counter state (increment/decrement/reset)   | Ava           | liable     |
| ants               |                      | Disable/Enable/Toggle channel (server event) Disable/Enable channel's video analytics (server event)                                      |               |            |
| EVE                |                      | Change recording profile for main and secondary stream  |               |            |
|                    |                      | Activate PTZ tour   |               |            |
|                    |                      | Activate PTZ preset   | Ava           | ilable     |
|                    |                      | Change digital output state  Device action (device-specific actions like arm/disarm)  |               |            |
|                    |                      | Create bookmark   |               |            |
|                    |                      | Change access control state (system action to send event to AC, e.g, for Gallagher's Patterns)  |               |            |
|                    |                      | Change door state (for access control integrations)  Security system and security item related actions (for zones, partitions, outputs)   | Ava           | ilable     |
|                    | SI                   | Change OPC server node value  |               |            |
|                    | tior                 | Pop-up object on video wall (channel or map)  |               |            |
|                    | . Ac                 | Highlight object on map or geo map  | Not available | Available  |
|                    | able                 | External service (for API integrations)   |               |            |
|                    | Configurable Actions | Send email notification Send email notification with attached main or substream snapshot  |               |            |
|                    | onfi                 | Run program (any executable file or shell script)   | Δναί          | ilable     |
|                    | Ö                    | Send SNMP trap to third-party SNMP manager  | Ava           |            |
|                    |                      | Send event to client application (text or audio) Send push notification to mobile apps  |               |            |
|                    |                      | Send audio file to camera for playback (audio OUT)  |               |            |
|                    |                      | Write to software audit log   |               |            |
|                    |                      | Write to OS application log   |               |            |
|                    |                      | Send HTTP/HTTPS request (URL) Export snapshot to local storage or FTP   | Ava           | ilable     |
|                    |                      | Send MQTT message   |               |            |
|                    |                      | Send SMS (outgoing short message via GSM modem)   |               |            |
|                    |                      | Rule timers: delay, aggregate, cooldown (pause)   |               |            |
|                    |                      | Conditions: combine two or more events to trigger a single rule  Action target: use universal actions for many different target resources |               |            |
|                    | ras                  | Rule schedules: activate during specific hours  |               |            |
|                    | Extras               | Counters: count number of occurrences for any event   | Avai          | ilable     |
|                    | E&A                  | Counters allow building live reports in client application  Create automatic reports based on counters and email them (PDF)               |               |            |
|                    | Ш                    | Indicators: entities with multiple states, displayed in monitoring and on maps  |               |            |
|                    |                      |   |               |            |

|  |              | CORTROL software features by edition (v1.32 I  |                      |                               |  |
|--|--------------|--|----------------------|-------------------------------|--|
| Cate                                     | gory         | Functionality  | Premier              | Global                        |  |
|  |              | Indicators: change state based on event Internal tags and subjects for FR and LPR  |                      |                               |  |
|  |              | Unified interface for all editions   | Avai                 | lable                         |  |
|  |              | Simultaneous connection to servers   |                      | mited                         |  |
|  |              | Touchscreen friendly interface   |                      |                               |  |
|  |              | Built-in user guide (PDF format)   |                      |                               |  |
|  |              | Application branding (define logo image via Client Admin Tool)  Adjustable "no video" placeholder image for branding and application customization   |                      |                               |  |
|  |              | Configurable single-click support call from the application (click on the logo)  |                      |                               |  |
|  |              | Multi-display setup  |                      |                               |  |
|  |              | Startup configuration (layouts, window arrangement)  | Avai                 | ilable                        |  |
|  |              | Configuration import/export  |                      |                               |  |
|  |              | Server connections (list) Show or hide manually disconnected servers   |                      |                               |  |
|  |              | Grouping for server connections  |                      |                               |  |
|  |              | Merge resources (hide server names)  |                      |                               |  |
|  |              | Automatic logout after specified timeout   |                      |                               |  |
|  |              | Popup notification upon server disconnect Show user password that is being entered   |                      |                               |  |
|  |              | Option to block user account after N unsuccessful login attempts   |                      |                               |  |
|  |              | Secure user login using 2FA (two-factor authentication) via email or SMS   |                      |                               |  |
|  |              | Login using external authentication providers - Oauth 2.0 (Google, Microsoft, Apple, Okta, generic)  | Avai                 | lable                         |  |
|  |              | Internal and AD/LDAP user support  |                      |                               |  |
|  |              | Different domain login for AD/LDAP  Multicast support (server-to-clients)  |                      |                               |  |
|  |              | Window minimize/maximize/full screen   |                      |                               |  |
|  | <del>-</del> | Disable/enable background streaming for bandwidth usage optimization   |                      |                               |  |
|  | Jer          | Keyboard shortcuts for most client functionality for any Windows/joystick keyboard   |                      |                               |  |
|  | General      | Search input from CCTV keyboards (if supported)  |                      |                               |  |
|  |              | Custom resource IDs to facilitate resource search (Ctrl+F) (config via Console's Quick Access)  Native support for i-PRO (Panasonic) WV-CU98 CCTV keyboard   |                      |                               |  |
|  |              | Client application Administration Tool with advanced permissions and UI restrictions   | Avai                 | lable                         |  |
|  |              | Themes (change application colors)   |                      |                               |  |
|  |              | Application settings: language, usability, overlay elements  |                      |                               |  |
|  |              | Search across application settings   |                      |                               |  |
|  |              | Time presentation: server-side/client-side/UTC Collapsible resources panel (more space for live view)  |                      |                               |  |
|  |              | Search among resources (channels, maps, user buttons, layouts)   |                      |                               |  |
|  |              | Case management: alarm pane  |                      |                               |  |
|  |              | Visual groups (single or multi-layer) for resource grouping/filtering, tree view   | Avai                 | ilable                        |  |
|  |              | Define individual icons for channels, user buttons, CrossLinks, and visual groups (via Console)  |                      |                               |  |
|  |              | Auto layout creation for visual groups Built-in layout templates (grids)   |                      |                               |  |
|  |              | Server-side (user-defined) layout templates  |                      |                               |  |
|  |              | Layout change history (undo/redo changes) for live and playback (50 states)  | Avai                 | lable                         |  |
|  |              | Channel status: visual indication  |                      |                               |  |
|  |              | Indication for offline server  |                      |                               |  |
|  |              | Indication for offline server substitution (mirror/direct connection to recording servers)   | Not available        | Available                     |  |
|  |              | Indication for offline server substitution (mirror/direct connection to recording servers)  Tooltips (popup hint on mouse over)  | Not available        | Available                     |  |
|  |              | Indication for offline server substitution (mirror/direct connection to recording servers) Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode  | Not available        | Available                     |  |
|  |              | Tooltips (popup hint on mouse over)  Application modes: always on top, lock application, exclusivity mode  Run archive backup wizard with current user rights  |                      |                               |  |
|  |              | Tooltips (popup hint on mouse over)  Application modes: always on top, lock application, exclusivity mode  Run archive backup wizard with current user rights  Import and export Client application settings   |                      | Available<br>lable            |  |
|  |              | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list   |                      |                               |  |
|  |              | Tooltips (popup hint on mouse over)  Application modes: always on top, lock application, exclusivity mode  Run archive backup wizard with current user rights  Import and export Client application settings   |                      |                               |  |
|  |              | Tooltips (popup hint on mouse over)  Application modes: always on top, lock application, exclusivity mode  Run archive backup wizard with current user rights  Import and export Client application settings  Safe export of the server connections list  Update plan subscription expiration notifications  Live video streaming, single or multi-channel  Live view optimized for high FPS   |                      |                               |  |
|  |              | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view  |                      |                               |  |
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|  |              | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink)  | Avai                 | lable                         |  |
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|  |              | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink)  | Avai                 | lable                         |  |
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|  | Live         | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live viw optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink) Data channel visualization (POS data and other, text only) Live audio IN (from the camera) Live audio OUT (talk to camera from client) Convenient audio IN and OUT control for all channels in the layout Save current layout on the server (shared layout) Save current layout on the server (shared layout) Saved layout properties: all toggled controls, last used PTZ preset, user buttons Set current layout as startup Create layout sequence Remove layouts and layouts sequences Send current screen contents or any resource to any display Drag and drop channels to viewports Drag and drop phannels to viewports Drag and drop maps and visual groups to viewports to link them Pop up objects based on events (individual viewports or layouts)   | Avai<br>Avai<br>Avai | lable lable                   |  |
| lity)                                    | Live         | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink) Data channel visualization (POS data and other, text only) Live audio IN (from the camera) Live audio OUT (talk to camera from client) Convenient audio IN and OUT control for all channels in the layout Save current layout locally Save current layout on the server (shared layout) Saved layout properties: all toggled controls, last used PTZ preset, user buttons Set current layout as startup Create layout sequence Remove layouts and layouts sequences Send current channel to Smart search or Sequence Explorer Send current screen contents or any resource to any display Drag and drop maps and visual groups to viewports Drag and drop maps and visual groups to viewports or layouts) Lock viewports to avoid popup replacements   | Avai<br>Avai<br>Avai | lable lable                   |  |
| onality)                                 | Live         | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink) Data channel visualization (POS data and other, text only) Live audio IN (from the camera) Live audio OUT (talk to camera from client) Convenient audio IN and OUT control for all channels in the layout Save current layout locally Save current layout on the server (shared layout) Saved layout properties: all toggled controls, last used PTZ preset, user buttons Set current layout as startup Create layout sequence Remove layouts and layouts sequences Send current channel to Smart search or Sequence Explorer Send current screen contents or any resource to any display Drag and drop channels to viewports Drag and drop maps and visual groups to viewports Drag and drop user buttons to channel viewports to link them Pop up objects based on events (individual viewports or layouts) Lock viewports to avoid popup replacements Status overlay: time, stream properties, recording ON/OFF, motion grid  | Avai<br>Avai<br>Avai | lable lable                   |  |
| ictionality)                             | Live         | Tooltips (popup hint on mouse over) Application modes: always on top, lock application, exclusivity mode Run archive backup wizard with current user rights Import and export Client application settings Safe export of the server connections list Update plan subscription expiration notifications Live video streaming, single or multi-channel Live view optimized for high FPS Double click to maximize channel or revert to the multi-camera view Convenient switching between maximized channels Main and secondary video stream (low/high resolution) Manual or automatic stream selection with default option Video analytics metadata overlay (built-in VA, ONVIF, camera metadata) Interactive channels and webpages (CrossLink) Data channel visualization (POS data and other, text only) Live audio IN (from the camera) Live audio OUT (talk to camera from client) Convenient audio IN and OUT control for all channels in the layout Save current layout locally Save current layout on the server (shared layout) Saved layout properties: all toggled controls, last used PTZ preset, user buttons Set current layout as startup Create layout sequence Remove layouts and layouts sequences Send current channel to Smart search or Sequence Explorer Send current screen contents or any resource to any display Drag and drop maps and visual groups to viewports Drag and drop maps and visual groups to viewports or layouts) Lock viewports to avoid popup replacements   | Avai<br>Avai<br>Avai | lable lable                   |  |
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| Quick switch to regular playback and back Add bookmark Immediate video export Pre-configured library folder Library tab reflecting the contents of the library folder (auto refresh) Text search for the library folder  |      | t Se                                 |   | Avai                                    | ilable                        |  |
| Quick switch to regular playback and back Add bookmark Immediate video export Pre-configured library folder Library tab reflecting the contents of the library folder (auto refresh) Text search for the library folder  |      | nar                                  |   |   |                               |  |
| Quick switch to regular playback and back Add bookmark Immediate video export Pre-configured library folder Library tab reflecting the contents of the library folder (auto refresh) Text search for the library folder  |      | Š                                    |   |   |                               |  |
| Immediate video export Pre-configured library folder Library tab reflecting the contents of the library folder (auto refresh) Text search for the library folder   |      |                                      | Quick switch to regular playback and back   |   |                               |  |
| Pre-configured library folder Library tab reflecting the contents of the library folder (auto refresh) Text search for the library folder  |      |                                      |   |   |                               |  |
| Library tab reflecting the contents of the library folder (auto refresh)  Text search for the library folder   |      |                                      |   |   |                               |  |
| Text search for the library folder   |      |                                      |   |   |                               |  |
| Snapshot export to library (JPG or PNG)  |      |                                      | Text search for the library folder  |   |                               |  |
|  |      |                                      | Snapshot export to library (JPG or PNG)   |   |                               |  |

|   | CORTROL software features by edition (v1.32 |  |               |             |  |
|---|---|--|---------------|-------------|--|
| Cate  | gory  | Functionality  | Premier       | Global      |  |
|   |   | Snapshot export as PDF   |               |             |  |
|   |   | Dewarp & DPTZ state, metadata and POS data for snapshot export   |               |             |  |
|   |   | Dewarp & DPTZ state, metadata and POS data for video export (VP8 and JPEG)   |               |             |  |
|   |   | Video export to library Export job queuing   |               |             |  |
|   |   | Configurable file name using macros  |               |             |  |
|   |   | Video export: AVI, MP4, MKV, or frame series   |               |             |  |
|   |   | Case export: choose multiple time intervals from different channels to create a story  |               |             |  |
|   | Export                                      | Case export: auto combine data channels with related video channels  | Avai          | ilable      |  |
|   | Ж   | Create, edit, and remove cases within each Client instance   | , tvai        | id blo      |  |
|   |   | Case export: export created case as a single video file  |               |             |  |
|   |   | Time lapse mode Original or compressed exported video  |               |             |  |
|   |   | Include data overlay with exported video (text overlay)  |               |             |  |
|   |   | Motion blur: blur areas based on motion or permanently   |               |             |  |
|   |   | Configurable subtitles   |               |             |  |
|   |   | Burn exported files onto CD/DVD  |               |             |  |
| _   |   | Save exported files onto external media (USB, HDD, FTP)  |               |             |  |
| <u>₹</u>                                    |   | Print exported files directly from the Library section   |               |             |  |
| na la                                       |   | Remove files from library  Append watermark validator tool with exported files   |               |             |  |
| 웆   |   | Append watermark validator tool with exported files  Append portable player tool with exported files                                       |               |             |  |
| Ĕ   |   | Separate tab for important notifications: errors, events, user events  |               |             |  |
| 正   |   | Alerts tab purged upon application restart   |               |             |  |
| Sec   | Alerts                                      | 3 severity levels: critical, warning, information  | Avai          | lable       |  |
| /an   | Ą   | Snackbar (toast style) live notifications for alerts   | Avai          |             |  |
| Ad  |   | Per-channel alerts: notification panel (overlay element)   |               |             |  |
| ٦   |   | Popup alerts: configurable from Console  |               |             |  |
| Client Application (Advanced Functionality) |   | Case management: alarm pane (with an option to hide/remove)  Alarm pane is separately configurable for live mode and the rest of the modes |               |             |  |
| ica   |   | Live alarms based on bookmarks + live comments and status  |               |             |  |
| dd  | <i>"</i>                                    | Live comments  |               |             |  |
| t A   | Alarms                                      | Adjustable bookmark severity and status  | Avai          | lable       |  |
| <u>ie</u>                                   | Ŋaı   | Live snapshot preview  | Avai          | lable       |  |
| 2   | `   | Overlay controls to pop up live or instant playback  |               |             |  |
|   |   | User button overlay to trigger channel-associated actions  |               |             |  |
|   |   | Filter incoming live alarms based on channels/servers/visual groups  Multiple pre-configurable filter tabs                                 |               |             |  |
|   |   | Easy multi-display setup   |               |             |  |
|   |   | Tiled video walls (composite screen)   |               |             |  |
|   |   | Display numbers  |               |             |  |
|   | =   | Startup layouts  |               |             |  |
|   | Video Wall                                  | Startup sequences  |               |             |  |
|   | 60  | Channel/map/layout popups  | Not available | Available   |  |
|   | Vid   | Local and remote management from any client connected to the same server   |               |             |  |
|   |   | Drag-and-drop to set remote video wall contents  No-video mode for remote connections  |               |             |  |
|   |   | Automatic contents (event driven)  |               |             |  |
|   |   | See if other users are managing the same video wall simultaneously   |               |             |  |
|   |   | Connected access controls or other security systems/panels (fire/alarm, etc.)  |               |             |  |
|   |   | Search events based on time, source, event name, or cardholder   |               |             |  |
|   | <u>o</u>                                    | See and change door status   |               |             |  |
|   | stems                                       | See channels associated with doors and security items See security item (partition, zone, and output) status                               |               |             |  |
|   | Sys   | Execute security item actions (bypass, arm, etc.)  |               |             |  |
|   |   | View door and security item events   | Per server    | Centralized |  |
|   | Security                                    | See and control doors and security items on the maps   |               |             |  |
|   | Sec   | See the list of cardholders  |               |             |  |
|   |   | Filter events by door or security item   |               |             |  |
|   |   | Filter events by cardholder  |               |             |  |
|   |   | Export search results  |               |             |  |
|   |   | Build graphs based on VCA or software counters' data  Configurable report interval   |               |             |  |
|   | "   | Configurable report interval (day and time filter)   |               |             |  |
|   | Reports                                     | Chart type: bar, line, pie diagram   | Avai          | lable       |  |
|   | Зер   | Aggregation  | Avai          | IGDIC       |  |
|   | Œ   | Report export (PDF or CSV)   |               |             |  |
|   |   | Email reports via pre-configured mail server   |               |             |  |
|   |   | Heatmaps based on motion metadata Live video overlay   |               |             |  |
|   | Se  | Text overlay during playback   |               |             |  |
|   | Sources                                     | Text overlay during instant playback   |               |             |  |
|   |   | Text search (separate tab)   | Avai          | lable       |  |
|   | Data  | Text overlay upon video export   |               |             |  |
|   | ã   | Data visualization separated from video (data channels) in live, playback, and instant playback  |               |             |  |
|   |   | Queries to the databases from Playback (can be saved and loaded)  Live results in notification panel (per channel)                         |               |             |  |
|   |   | Thumbnails and text results in notification panel  |               |             |  |
|   |   | Investigation (separate tab) by one or multiple channels   |               |             |  |
|   |   | Search by plate  |               |             |  |
|   |   | Search by tag  |               |             |  |
|   |   | Search by time range   |               |             |  |
|   | LPR   | Instant playback   | Avai          | lable       |  |
|   |   | Grid view: from 1x1 to 6x6  Quickly switch to regular playback   |               |             |  |
|   |   | Go to specific time  |               |             |  |
|   |   | Add bookmarks  |               |             |  |
|   |   | Export snapshot  |               |             |  |
|   |   | Export video clip  |               |             |  |
|   |   | Save search results into CSV file  |               |             |  |
|   |   | Live results in notification panel (per channel)  Thumbnails and text results in notification panel  |               |             |  |
|   |   | Investigation (separate tab) by one or multiple channels   |               |             |  |
|   |   | Search by face (reference picture)   |               |             |  |
| L SL  |   | Search by name   |               |             |  |
| tions                                       | l   | Search by tag  |               |             |  |
|   |   |  |               |             |  |

|                    |                        | CORTROL software feature   | res by edition (v1.32 Nov |                    |  |
|--------------------|------------------------|--|---------------------------|--------------------|--|
|                    | egory                  | Functionality  | Premier                   | Global             |  |
| Analytics Integrat |                        | Search by time range Add subject to FR database  |                           |                    |  |
| 重                  | H.                     | Instant playback   | Available                 |                    |  |
| ics                |                        | Grid view: from 1x1 to 6x6   |                           |                    |  |
| aly                |                        | Quickly switch to regular playback Go to specific time   |                           |                    |  |
| Ą                  |                        | Add bookmarks  |                           |                    |  |
|                    |                        | Export snapshot  |                           |                    |  |
|                    |                        | Export video clip Save search results into CSV, XLS, or PDF file   |                           |                    |  |
|                    |                        | Active Guard OSS Plugin integration with Client application  |                           |                    |  |
|                    |                        | Direct connection from Client application for a unified interface  Pre-configure one or multiple Active Guard connections              |                           |                    |  |
|                    |                        | Display interactive contents of the remotely configured Active Guard servers   |                           |                    |  |
|                    |                        | List of cameras  |                           |                    |  |
|                    |                        | Analytics events and recognition details  Event search based on the available camera analytics   |                           |                    |  |
|                    | AG                     | Event search based on time available carriera analytics  | Available                 |                    |  |
|                    | `                      | Timeline search across multiple cameras  |                           |                    |  |
|                    |                        | Playback for search results using native Instant Playback Active Guard server event integration with Evo server                        |                           |                    |  |
|                    |                        | Object detection and face recognition events from Active Guard in the CVA E&A  |                           |                    |  |
|                    |                        | OCR, LPR, and vehicle detection events from Active Guard in the CVA E&A  |                           |                    |  |
|                    |                        | Object detection and face recognition events from Active Guard in the CVA E&A  Active Guard server watchlists as events in the CVA E&A |                           |                    |  |
|                    |                        | Portable tool (no installation required)   |                           |                    |  |
|                    |                        | 32-bit and 64-bit versions   |                           |                    |  |
|                    |                        | Single channel media playback (for exported video in common formats)  Add files and folders for playback                               |                           |                    |  |
|                    |                        | Multichannel playback for proprietary archive (any disk or backup directory)   |                           |                    |  |
|                    |                        | Playback of encrypted native archive   |                           |                    |  |
|                    | ē                      | Built-in watermark check (archive integrity verification)  Navigation: play/pause, go to time  |                           |                    |  |
|                    | Portable Player        | Jump back/forward +/- 10s, 1M, 10M, 1H, 24H  |                           |                    |  |
|                    | l e                    | Jump to the very beginning/end Jump back/forward frame by frame  | Available                 |                    |  |
|                    | ortak                  | Motion seek (jump to next/previous motion, for proprietary format)   |                           |                    |  |
|                    | ĕ                      | Playback speed: from +/- x0.5 to x128  |                           |                    |  |
|                    |                        | Export video clips (multiple formats available) Export single channel snapshots  |                           |                    |  |
|                    |                        | Stream properties: codec, resolution   |                           |                    |  |
| Tools              |                        | Aspect ratio control   |                           |                    |  |
| ř                  | Watermark<br>Validator | Viewport overlay settings Video clip and snapshot export settings  |                           |                    |  |
|                    |                        | Library path   |                           |                    |  |
|                    |                        | Portable tool (no installation required) Append tool when copying exported files   |                           |                    |  |
|                    |                        |  | Available                 |                    |  |
|                    | ater/alio              | Check watermark for video clips  | Available                 |                    |  |
|                    | > -                    | Check watermark for image files (snapshots)  Drag and drop files into validation window  |                           |                    |  |
|                    |                        | Back up any part of the archive manually   |                           |                    |  |
|                    | ckup                   | Local or remote connection  Configure time range   |                           |                    |  |
|                    | Ba                     | Select channels and tracks to be copied  | Available                 |                    |  |
|                    | Archive                | Channel search Pause and resume backup job at any time   | Available                 |                    |  |
|                    | Arc                    | Enter password to access encrypted storage   |                           |                    |  |
|                    |                        | Encrypt or re-encrypt the backup   |                           |                    |  |
|                    |                        | Android and iOS support Android TV support   | Available                 |                    |  |
|                    |                        | Remote WLAN (including VPN) and 4G connections   |                           |                    |  |
|                    |                        | Concurrent connections to the same server HTTPS support  | Unlimited Unlimited,      | via central server |  |
|                    |                        | Multiple pre-configured servers  | Available                 |                    |  |
|                    |                        | Separate user permissions AD/LDAP user support   | Available                 |                    |  |
|                    |                        | Codec support: JPEG/H.264/H.265/VP8  | Available                 |                    |  |
|                    |                        | Codec support: per-codec configuration, hardware/software  |                           |                    |  |
|                    |                        | Language support: English, French, Italian, Dutch, Polish, Russian Configurable time format and timezone                               |                           |                    |  |
|                    |                        | Video statistics   |                           |                    |  |
|                    |                        | Stream selection: main/substream/auto (based on viewport size)   |                           |                    |  |
|                    |                        | Live video Live audio IN (from camera or server)   |                           |                    |  |
|                    | SO                     | Live audio OUT (from device to server)   |                           |                    |  |
|                    | nac                    | 1x1, 2x1, 2x2 and 3x2 live view layouts  | Available                 |                    |  |
|                    | and macOS              | PTZ control PTZ presets  | Available                 |                    |  |
|                    | e a                    | PTZ tours  |                           |                    |  |
|                    | Mobile                 | Visual groups – channel grouping in live view Channel sets (mobile layouts)  |                           |                    |  |
|                    | _                      | Chromecast support   |                           |                    |  |
|                    |                        | Aspect ratio control   |                           |                    |  |
|                    |                        | Video archive playback (main/secondary stream) Playback: seek  |                           |                    |  |
|                    |                        | Playback: go to specific time  |                           |                    |  |
|                    |                        | Motion search in video archive Push notifications from servers   |                           |                    |  |
|                    |                        | Channel event history  | Available                 |                    |  |
|                    |                        | User buttons: software buttons for action triggering   |                           |                    |  |
|                    |                        | Snapshots: save frames to a local folder Bookmarks: add and browse   |                           |                    |  |
|                    |                        | Stream from device camera to the server (only active channels counted by license)  |                           |                    |  |
|                    |                        | Record from device camera while offline Internal storage and SD card support from recording, configurable quota                        | Available                 |                    |  |
| ð                  |                        | internal eterage and ob eard support from recording, configurable quota  |                           |                    |  |

|        |            | CORTROL software featur   | es by edition | (v1.32 Nov |
|--------|------------|---|---------------|------------|
| Cate   | gory       | Functionality   | Premier       | Global     |
| and We |            | App widget: panic button – instant streaming from device camera to a server           |               |            |
| 9      |            | App widget: channels, configurable refresh rate (from 30s to 1h)                      |               |            |
| a      |            | Concurrent connections to the same server   | Unlin         | nited      |
| Mobile |            | Supported browsers: Chrome, Mozilla Firefox   | Avail         | able       |
| ᅙ      |            | Separate user permissions   | Avail         | abic       |
| 2      |            | AD/LDAP user support  | Avail         | able       |
|        |            | Codec support: JPEG/H.264/MPEG-4 (H.265 if supported by browsers)                     |               |            |
|        |            | Live view   |               |            |
|        | Client     | Stream selection: main/substream/auto (based on viewport size)                        |               |            |
|        | ≅          | 1x1, 2x1, 1x2 and 2x2 live view layout templates                                      |               |            |
|        | Web        | Local layouts (saved in browser cookies)  |               |            |
|        | Š          | Stream properties: codec, resolution  | Avail         | ahle       |
|        |            | PTZ control: pan, tilt, zoom  | Avail         | abic       |
|        |            | PTZ presets   |               |            |
|        |            | Single channel archive playback (main/secondary stream)                               |               |            |
|        |            | Timeline: video only  |               |            |
|        |            | Jump back/forward +/- 10s, 1m, 10m, 1h  |               |            |
|        |            | Go to specific time   |               |            |
|        |            | Concurrent connections to the same server   | Unlim         | iited      |
|        |            | Language support (same as main client)  |               |            |
|        |            | Supported browsers: Chrome & Chromium-based, Mozilla Firefox, Comet, Edge             | Avail         | able       |
|        |            | Android tablet (Chrome, Brave) support  | Avaii         | able       |
|        |            | Separate user permissions   |               |            |
|        |            | AD/LDAP user support  | Avail         | able       |
|        |            | Codec support: H.264/H.265 (JPEG/MPEG-4 transcoded into VP8 as HTML5 friendly format) |               |            |
|        |            | Live view   |               |            |
|        | ta         | Auto switch to snapshot mode if unsupported/high load (fallback mode)                 |               |            |
|        | Beta       | Manual channel reload   |               |            |
|        | 0          | Stream selection: main/substream  |               |            |
|        | Client 2.  | 1x1, 2x1, 2x2, 1x3, 1x4 live view layout templates                                    |               |            |
|        | <u>e</u> . | Aspect ratio control (original/stretch to fill)                                       |               |            |
|        | ō          | Stream properties: codec, resolution, FPS, bitrate                                    |               |            |
|        | Web        | PTZ control: pan, tilt, zoom  | Avail         | able       |
|        | >          | PTZ presets   | Avaii         | able       |
|        |            | Snapshot: save snapshot locally from any channel                                      |               |            |
|        |            | Multichannel archive playback (main/secondary stream)                                 |               |            |
|        |            | Timeline: video   |               |            |
|        |            | Bookmarks: add bookmarks  |               |            |
|        |            | Jump back/forward +/- 10s, 1m, 10m, 1h, 24h   |               |            |
|        |            | Jump to the very beginning/end of the archive   |               |            |
|        |            | Go to specific time   |               |            |
|        |            | Camera status tab for availability and stream monitoring                              |               |            |