Feature list per editions — (v1.28.0 Jul. 30 2024)

App	Features	Premier Essentials	Premier Eddition	Global Edition
Features (General)	Licensing type	Single Server / Multi Client		Central & Multi-Server / Multi Client
	Installation versions	32Bit & 64Bit		
	Core license offerings	9 - 16	24 - 48 - 72 - 96	50 - 100
	Server Connections: Number of connected Clients Supported	Unlimited		
	Version updates - Major releases are quarterly and maintenance releases typically one to two months after a major release	Free during active warranty subscription		
	Warranty: Core License - Offers access to major and maintenance releases during the active subscription coverage. *(Life time technical support & resources)*	2 Year core license with options to renew		
	Renewal / Extention: Core License	1, 2, 3, 4, 5, 6, 7, 8 Year renewal options		
	Channel upgrade options - Single channel add-on with an MOQ (minimum order quantity) of 6 channels in Premier and Global editions	N/A	Channel additions	
	Warranty: Channel Add-ons - Automatically covered under the balance of the 2 year core license warranty *(Core license renewal / extension coverage not included)*	N/A	Covered under remaing 2-yr Core License warranty	
	Renewal /Extention: Channel Add-ons - Renewal /Extension license required if past the core license 2-yr coverage *(Core License renewal / extension not included)*	N/A	1, 2, 3, 4, 5, 6, 7, 8 Year renewal options	

App	Features	Essentials	Premier	Global
CORTROL Client — Features	Archive Backup Wizard (Includes support for Visual Groups)	Available	Available	Available
	Advanced Window Settings: Video Wall Composite Screen (Tiles)			
	Automatic stream selection for archive playback			
	User Buttons: List of User Buttons (Support of Visual Folders, Server Association, Merged Resources)			
	Command Mapping: Archive, Device, Layout, Playback, Window			
	Channels: List of Channels (Support of Visual Folders, Server Association, Merged Resources)			
	Channel Status: Green - Passive / White - Online / Red - Offline			
	Client Full Screen / Minimize / Restore / Exit			
	Client Tree: Collapse / Minimize			
	Client Configuration Import/Export			
	Cloud connector service *(Easy connect to remote Premier servers, BETA)* ***New in 1.28.0***			
	Connections: Multi-Server connection grouping			
	GPU hardware decoding for H.264 & H.265 codec, and performance test utility			
	HTTP based API commands			
	Layouts: List of Layouts from Built-in (60), Custom, Sequence, Shared (Requires CORTROL Global)			
	Layout Synchronization Setting - Enable/Disable Live/Playback Layout synchronization			
	Layout auto select based on selected visual group			
	Login - Two factor authentication			
	Multi-Cast Support			
	Maps: List of Maps (Support of Visual Folders, Server Association, Merged Resources)			
	Multi-Monitor Support: No limit to Number of Monitors (Hardware Limitation Only)			
	Multi-Monitor Instant Playback support for 'Go to Playback' button send to Playback			
	Notification Panel: Font size adjustment setting, Show images (Thumbnail) for external service results, Dynamic position and scaling			
	ONVIF metadata support: Bounding box & classification overlay in Live and Playback			
	Option to export/import custom ONVIF events ***New in 1.28.0***			
	Plugin integration: i-PRO Active Guard OSS, Watch lists server evets integration			
	Show child nodes when searching in Client application tree view			
	Search (Includes associated Child Nodes): Client Search of Layouts, Channels, Maps, Buttons			
	Search for the Client application settings ***New in 1.28.0***			
	Snapshot Export: File Name Template / Subtitles / To PDF Report			
	Status: Online / Offline Server Associated Layouts, Channels, Maps, Buttons			
	Support for the Axis LPR plugin (version 2.9) ***New in 1.28.0***			
	Theme: Use Color to Highlight Important Functions/Features			
	Time Presentation: Toggle Between Local / UTC / Server Time (Scroll Server List)			
	User Guide: Client User Guide			
CORTROL Client — Live	Action/Status Icons: Recording Status, Recording Type, Codec, Resolution, FPS, Bitrate	Available	Available	Available
	Aspect Ratio Toggle: Toggle between Auto / Stretch / Original			
	Bookmark Add: Date/Time, Title, Description, Severity level by color			
	DPTZ and Dewarping: Region (PiP + Zoom In/Out) & PTZ (Virtual Pan/Tilt, 180° Pano, 360° View)			
	Fisheye, hardware accelerated dewarping			
	Instant playback: Go to Date/Time, Audio, Motion status, Bookmark, Snapshot, Video Export			
	Layout Save Properties: Title, Presets, Shared (Shared layouts requires Global)			
	Layout Pop-up Quick Select: multi-item selection, (cameras/maps), live stream layout popup			
	Lock Viewport: Prevents Pop-up Superseding Existing Channel			
	Multi-Display: Startup Layout, Sequence, Channel & Map or Layout Pop-ups			
	Map Support: eMaps, Geo-Maps (Linked Mobile GPS Meta Data), Visual Indicators, Action Links, Visual Camera Marker Live Preview pop-up			
	Microphone: Transmit Audio to Device (Device Support/Configuration Required)			
	Motion Grid: On/Off Detection Status Overlay			
	Notification Pane: Display E&A Notifications of Events, and or Alerts			
	Point-to-click PTZ for devices that support it ***New in 1.28.0***			
	PTZ: Presets, Tours, Iris & Focus, Joystick Support, HUD/Classic UI			
	Pop-Up Support: Pop-up Windows, Layouts, Notifications, Dialog Boxes			
	Substream Toggle: Toggle between Substream, Primary Stream, and Auto			
	Speaker: Receive Audio from Device (Device Support/Configuration Required)			
	Undo/Redo: Historical navigation of layout changes within liveview			
	Viewport button to send channel to Sequence Explorer			
	Viewport button to send channel to Smart Search			
	View non-interactive websites			
	Viewport Title: Channel Title, Channel Swap by Drag & Drop, User Button(s)			
	Visual Shortcuts: Visual support for fast channel navigation			
CORTROL Client — Playback	Archive Search Navigation:	Available	Available	Available
	Archive Search Bookmarks: Search Record Limit 1,000 Bookmarks			
	Archive Search Bookmarks, Video Analytics, Calender			
	Archive Search: Data Protection / Deletion (User Authentication Required)			
	Continuous playback for the Smart Search mode in the Client application ***New in 1.28.0***			
	Visual Shortcuts: Visual support for fast channel navigation			
	Copy Exported Video to user defined media, option of Portable player			
	Export: Case management video - multiple channels with custom date and time ranges			
	Export List Entry Events to a CSV File (Bookmarks, VCA)			
	Export Video: With/Without Audio - Selected Channel, All Channels Combined, All Channels Separate			
	Export Video: VP8 and JPEG compression includes dewarped images and VA metadata overlay			
	Export Snapshot: Sub-Titles, Selected Channel, Multi-Channel (All Visible Channels)			
	Geo-Maps Playback with Mobile GPS meta data support			
	Motion Blur Upon Export (IDentity Protection)			
	Playback speed controls: regular, slow and fast (Up to 8x speed)			
	Playback Channel Statistics: Recording Type, Codec, Resolution			
	Timeline and bookmarks thumbnail preview			
	Timeline Presentation Mode: Summary, Selected Channel, Separate Timeline per channel			
	Undo/Redo: Historical navigation of layout changes within playback view			
CORTROL Client — Sequence	Export Snapshot per Single Channel Selection	Available	Available	Available
	Export Video Clip: Entire Start to End Date/Time Selection, One or More Channels			
	Make New Sequence (Select Two or More Channels)			
	Select Start & End Date/Time			
	Send to Playback: Entire Start to End Date/Time Selection, One or More Channels			
	Sequence Layout 3x4 ~ 5x5			
	Split Prior / Next Footage (Based on Selected Measure of Time)			
	Undo/Redo: Historical navigation of layout changes within sequence view			

		Features	Premier Essentials	Premier Eddition	Global Edition
	Smart Search	Send to Playback			
		Add Bookmark			
		Export Video Clip			
		Live Preview			
		Search by Date/Time	Available	Available	Available
		Set Region of Interest with Additive Function Supported			
		Multi Layout support 3x3 ~ 6x6			
		Prior / Next Result Move to Function			
		Export List Entry Events to a CSV File			
	Alerts	Logon/Logout Alerts			
		Camera Events			
		Operational errors			
		Stream Errors	Available	Available	Available
		Server & Device - Connectivity Errors			
		System Level Alerts			
	Library	Open Exported Snapshot/Video Based on Select Entry			
		Show in Windows Explorer (Open Folder Containing Exported Media)	Available	Available	Available
		Copy to… (Copy Exported Media to Selectable Device, Local Folder, Thumb Drive, External Hard Drive			
		Delete Selected Exported Snapshot / Video Entry from Library			

App		Features	Premier Essentials	Premier Eddition	Global Edition
CORTROL Client	Video Wall	Multi Monitor Support			
		Display Number			
		Primary or Not (If Set)			
		Startup Layout (If Set)			
		Channel / Map Pop-ups (Allowed or Not)	-		Available
		Layout Pop-ups (Allowed or Not)			
		Start Fullscreen / Not Fullscreen			
		Video Wall Screen Number if set			
	Data Sources	Add Bookmark			
		Export Snapshot			
		Export Video Clip			
		Export List Entry Events to a CSV File			
		Go to Date/Time (Any Date/Time)	Available	Available	Available
		Jog Shuttle Support			
		Motion Grid On/Off			
		Search by Date/Time			
		Search by Text (Enter Partial, to Complete Spelling)			
		Send to Playback			
	Reports	Analytics Based Charts - Bar, Graph, Pie			
		Heat-Map Reports from Reports Tab			
		Report Counters: Counts Based on Device/Server Side Analytics Meta Data			
		Report Interval - Start & End Date/Time	Available	Available	Available
		Filters - Week/Days/Time			
		Aggregation			
		Counter Value			
	Access Control	Access View by Events, Door Events, Cardholders			
		Add Bookmark			
		Export Snapshot			
		Export Video Clip			
		Go to Date/Time (Any Date/Time)			
		Lock Status - Lock/Unlock/Temporary Unlock	Available	Available	Available
		Motion Grid On/Off			
		Preview per Selected Event			
		Search Interval - Start Date/Time, End Date/Time			
		Send to Playback			
	Face Recognition	Add Bookmark			
		Audio Playback On/Off			
		Add Subject to FR database (Requires FR version 3.1.1 or newer)			
		Export Video Clip, Snapshot, List Entry Events to a CSV File	Available	Available	Available
		Go to Date/Time (Any Date/Time)			
		Motion Grid On/Off			
		Search by Single Channel, Tag, Date/Time, Person's Name, Image (Browse to Image, Send from Playback)			
		Send to Playback			
	LPR Module	Export Video Clip, Snapshot, List Entry Events to a CSV File			
		Search by Single Channel, Plate Characters, Tag, Date/Time			
		Send to Playback	Available	Available	Available
		Go to Date/Time (Any Date/Time)			
		Motion Grid On/Off			
		Add Bookmark			
	External Service	Display event by/in assigned event/tag color			
		Export Video Clip, List Entry Events to a CSV File			
		Search by text entry, Date/Time			
		Send to Playback	Available	Available	Available
		Go to Date/Time (Any Date/Time)			
		Motion Grid On/Off			
		Add Bookmark			
	Alarm Pane	Alarm que management			
		Alarm que for bookmarked events			
		Export: Alarm que list			
		Filter by Text, Severity, Channels, and groups			
		Group by channel, type	Available	Available	Available
		Review: Live alarm channel, Instant playback of alarm event			
		Realtime updates, comments, status change			
		Search by Title, Status			

Feature list per editions (v1.28.0 Jul. 30 2024)

	Feature	Premier Essentials	Premier Eddition	Global Edition
Settings	Application Startup: Exclusivity, Locked, Locked & Exclusivity, Regular Mode			
	Audo-Expand Server nodes in Layout, Channel, Map, and User Button panels			
	Audo-Expand Visual groups in Layout, Channel, Map, and User Button panels			
	Auto logout setting in Client application after user inactivity			
	Audio Notification: Enable/Disable - Sound File Selection			
	Action/Status Icons: Always On / On If Selected / Always Off			
	Client Watchdog			
	Client Update Notification			
	"Combine all visible tracks" resolution selection upon export			
	Hardware decoder information in viewport video overlay: Show / Hide			
	Instant Playback: Default Duration			
	Instant Playback: Default mode Setting	Available	Available	Available
	Library Location Selection			
	Substream: Prefered in playback mode			
	Substream toggle: Default mode - Auto, substream, mainstream			
	Pause Decoding for Background Channels when Minimized			
	PTZ Control: Heads Up Display, Classic Overlay			
	Snackbar style alert notifications			
	Snapshot Export: File Name Template / Subtitles			
	Snapshot Export: Enable/Disable annotation of External Data and Video Analytics/Metadata			
	Timestamp: Viewport information overlay - Show / Hide / Milliseconds / Font size / Font color / Word wrap / Position / Decoder information			
	Tooltips Pop-up			
	Video Export: File Name Template / Video Format / Subtitles			
	View Ports: Enable/Disable transmitting data when in background			
Features	API for third party integrations (Bookmark severity supported)			
	Automated Backup: Date/Time/Interval & Direction Locaton Selection			
	Administration Guide Hyper Link			
	Archive size/duration: No Software Limitation			
	Column Management: Order of Priority - Add/Remove - Freeze			
	Cyber Security Dashboard / Show active issues / Export to CSV file	Available	Available	
	Cyber Security: Internal tags and subjects dedicated database			
	Login server history - Dropdown menu of prior servers			Available
	Server Login Switch: Management Console alternative Server login switch *(Premier/Global Servers supported)*			
	Management Console Setup Wizard (Prime / Premier / Global Specific Function Setup)			
	Organizational Hierarchal Support	-		
	Object ID's Show: Enable/Disable Display of CORTROL API Object Classification ID			
	System Upgrade: Server, Console, Client Applications (Recording Server is Global Specific) - Hotfix tasks			
	Search Function: System Wide Search and Filter Functionality	Available	Available	
	Service Mode: Ran as a Kernel Level Service			
	Show Monitoring Warnings: Enable / Disable			
	Server Configuration Management - Local / Remote User	Per Server		Centralized: Multi Server Management
	Video Analytics: Computational Neural Network Engine (CNNE) offering server side support for Nvidia GPU (CUDA)			
	Video Analytics Support: Server, Edge, Meta Data (Device Specific Support)	Available	Available	Available
	Virtual Machine Environment support			

App	Features	Premier Essentials	Premier Eddition	Global Edition
Features	View modifier "Structured View" hides group associated items (Available via "Configuration" functions that support object grouping)	Available	Available	
Server / Networks	Audit Policy: Access Control events - Lock/Unlock/Temp Unlock actions performed by a user. - Server/User Events, Uncategorized - Max Records 10K, Max Days Unlimited	-		
	Authentication: Two factore via Email & SMS, CIAM: OAuth 2.0 - Apple, Custom, Google, Microsoft, Okta			
	Auto Discover: Same Network Recording Server Discovery			
	Bookmark Policy: Max Records 500K, Max Days - 5 Years, Pre-configurable severity levels with colors indicator			
	Browser Support: Chrome, and Firefox			
	Complex Password Security Policy Supported, with account lockout on N attempts			
	Encryption: Server Configuration Database, Audit Logs, & Other Software Data - Server/Client Communications, Storage, Archival Recording 128-bit and 256-bit AES encryption			
	External Audit: External database support for PostgreSQL, MySQL, Microsoft SQL Server			
	Failover Node Role - *Used by CORTROL Recording Server*	-		
	HTTP/HTTPS Support: Mobile App, Web GUI, and API Applications	Available	Available	Available
	Membership / Permissions Assignment Support			
	Mirroring Licensing Server (Global Support Only)	-		
	NAS Support: Network & Remote Storage			
	NTP Server support. Ability to synchronize Windows time settings			
	Option to choose view source (view by server) in Console's Audit ***New in 1.28.0***			
	Password Protection: Proprietary Archive			
	RTSP/SMTP/NTP/RTP	Available	Available	
	RTSP Server - Stream independent video channels			
	Security Policy: Disconnect user when disabled, PW change, expired, OAuth token reset, User ID watermark over live video and playback			
	Storage Configuration Management: Directories, Duration Quota, Retention, Fallback			
	Server Side Multi-Cast Support			
	VCA Analytics License Management (Assigned Licenses)			
	Web & Moibile Client Connections Supported		Unlimited	
	Watchdog: Operations, Performance, and Maintenance	Available	Available	Available
External Services	External Module FR (Face Recognition): ZNS-FR-x, Vero FR, ZNS-CVA-FR-x			
	External Module LPR (License Plate Recognition): ZNS-LPR-x, ZNS-CVA-LPR-x			
	External Module UICC (Container, UIC & Wagon): ZNS-CVA-UICC-x	Available	Available	Available
	GANZ AI Box: Event notification upon AI event action			
	GANZ Cloud AI service and storage			
	External Services support now on Recording Server			
Failover Clusters	Auto Recovery: Failover Deactivation after Corresponding Recording Server is Online			
	Central Server Connection Timeout			
	Failover Cluster 1:1, 1:Many support	-		Available
	Failover Timeout			
	Recovery Timeout			
	VCA functionality on failover server			
Users	Account: Activation / Expiration per a specified date and time			
	Active Directory & LDAP: Import Users, Users Groups, Foreign Security Principals			
	Administration Profile Permissions Support	Available	Available	
	Membership / Resources Assignment Support			
	Permissions: Per Resource Permissions			
	Per Organization / Resource / Component User Permissions	-		Available
	PTZ Prioritization Level			
	Recent Archive Interval Permissions Support			
	Schedule based user and user group resource access control	Available	Available	
	User Grouping Assignment			

CORTROL Server Management Console Configuration

	Feature	Essentials	Premier	Global
Devices	Auto Discovery Devices	Available	Available	Available
	Bukl Edit (Devices): Server, Port, User, Password			
	Device Grouping Assignment			
	CrossLink Basic - Per channel chromium embedded framework (CEF) mini browser for an interactive HTML5 based URL w/H.264 support			
	CrossLink Advanced - Remote Desktop via VNC			
	Device Duplication Creation			
	Device Support 5,000+ with Manufacture Support 140+			
	External Device Support: Unlimited (Tablets, Mobile Phones - Dynamically Assigned to Available Channels)			
	Fast Navigation: Device Related Items Navigation to Associated Channel(s)			
	Generic Device Drivers: ONVIF (Profile S), RTSP, PSIA, HTTP, WASAPI			
	GSM generic modem: Support of SMS nofitication sending and receiving			
	JPEG / Video File as a Device Support			
	Smart Device Deletion (Inclusion of Active Channel & Rules)			
	Single/Multi Device Creation			
	View Associated Device Channels			
	Video Stream Resolution: Up to 8K Support			
	Video capture board support			
Channels	Analogue PTZ protocols (via RS-232,422,485 ports)	Available	Available	
	Archive Channel Replication: Archive Duplication to a 2nd/3rd Recording Device(s)	-		
	Option to set the replication offset when creating a replication channel ***New in 1.28.0***			
	Audio Channel: Sharable Audio Channel Selection, with support for device API/ONVIF, One-Way / Two-Way audio driver specific			
	Bulk Edit (Channel): Orginization, Recording Configuration, Storage Assignment			
	Edge Recording: Device specific API, and or ONVIF Profile G Supported			
	Fast Navigation: Channel Related Items Navigation to Associated Device(s)			
	Fisheye Dewarp engine for 6MP and larger resolutions			
	Group Channel, Membership, Permissions assignment supported			
	Image properties; Focus / Brighten / Saturation / Contrast / Sharpness / White balance / Backlight / Wide dynamic / Exposure / Infrared Cutoff			
	I/O Support: Device API/ONVIF Driver Specific Input / Output Supported	Available	Available	
	Multi-Stream Support: Primary, Secondary, (RTSP: Hight Stream / Low Stream)			
	Motion Detector: Device or Server (HP/AP) side support			Available
	Multi-Cast Camera Side Support (Dependent upon Device Integration)			
	Per Channel Passive mode - Pause communications and video streaming until requested			
	Per Channel Video Overlay Configuraiton			
	Recording Configuraiton Assignment: Main Stream, Substream, Bulk & Single Channel Assignment			
	Storage Asignment: Per Channel Stream Recording Storage Assignment			
	Show Video: Per Channel Display of Video Stream (Multi Channel Selection not Supported)			
	Smart replication – Event based video stream replication	-		
	Supplementary Streams: Audio, Motion, VCA, External Data Stream - Alternatively record with substream over mainstream			
	User defined events: Based on generic ONVIF message types			
	Video Analytics Configuration per Assigned Channel (License Assignment & Configuration)			
	Video Analytics: CNNE Zones / Settings object time for presence, absence, and intersection by object threshold			
	Video Analytics: CNNE Zones Rules - enter/exit, appear/disappear, Lines/Tripwires - A/B, B/A, any direction			
	Video Analytics: CNNE dedicated database for analytics results history (External recognition results)	Available	Available	
	Video Analytics Engine: Advanced motion & object detection w/Classification			
	Video Analytics Detector: Personal Protective Equipment Detector, 1024x600, 512x512, 320x320, 300x300			
	Video Overlay: Visual alert notification - Indicator linking for color change of visual overlay			
	Video Overlay: Visual shortcuts – Link functionality, Polygonal shaping, advanced options			
Recording	Recording Schedule: Graphical & List Configuration	Available	Available	Available
	Recording Profile: Continuous - (Video & Frame Rate / Audio / Motion / Data / VCA)			
	Recording Profile: Motion - (Video & Frame Rate / Audio / Post Recording / Motion Alert)			
	Recording Configuration: Pre, Quota (Amount / Duration) / Custom Days / User Calendars			
Maps	Map image: PNG, JPG, TIF, BMP, and Static Gif	Available	Available	Available
	Map image: Grid enable/disable and Lock grid enable/disable			
	Map icon: Channel, Icon (type, color, size), Icon outline (color), Title (color, size), Title outline (color), Radius, Sector, Rotate, Coordinates, Track			
	Map visual elements: Clone function to copy and paste visual elements (markers)			
	Geo-Map: OpenStreetMap based Geo-Maps, with selected longitue, latitude location based lock option			
	Map Grouping: Map / Geo-Map			
	Map marker: 2D zones, with an option to bind them to user buttons and indicators ***1.28.0***			
	Linking - Camera: Selectable icon size, icon color, icon title color, icon title size, Rotation, Angle, Radius, GPS, Status			
	Linking - Map: Selectable icon size, icon color, icon title color, icon title size			
	Linking - User Button: Selectable icon size, icon color, icon title color, icon title size			
	Linking - Layout: Selectable icon size, icon color, icon title color, icon title size			
	Linking - Doors: Access Control based readers / Door			
	Linking - Indicator (Status): Indicator of status function associated			
	Linking - CrossLink Basic: Chromium embedded framework (CEF) based interactive HTML channel - File download (Video, JPD, PDF, CSV) - Dedicate Tab option			
	Linking - Data channel: Channel specific visualization of textual date from a linked Data source - Data ID, selectable channel recording destination			

App	Features	Essentials	Premier	Global
CORTROL Server Management Console — **Layout Templates**	Custom: Layout Support	Available	Available	Available
	Channel Grid Support: 1x1 ~ 20x5 (Up to 100 Channels)			
	Merge / Unmerge of Selected Channel(s)			
Layouts	Layout Group: Group Selected Layouts	Available	Available	Available
	Membership / Permissions Assignment Support			
Video Walls	Membership / Permissions Assignment Support	-		Available
	Video Wall Support: 1x1 ~ 20x5 (Up to 100 Channels)			
	Video Wall Group: Group Selection of Video Walls			
	Video Wall Management Assignable to Recording Server			
User Buttons	Membership / Permissions Assignment Support	Available	Available	Available
	User Buttons: User Selectable Event Generator			
	User Buttons: Stand Alone or Channel Assignable			
	User Button Group: Group Selection of User Buttons			
Visual Groups	Membership / Permissions Assignment Support	Available	Available	Available
	Visual Groups: Visual Representation of Grouped Objects			
	Multi-Level Visual Groups: Nested Visual Representation of Grouped Objects			
Webpages	Crosslink Basic - Channel based webpage navigation (Requires license Crosslink Basic license per channel)	Available	available Requires license	Available Requires license
	Web address and URL supported			
	Certificate error tolerance			
	User access permissions support			
Live Podcasts	Channel Video Stream; Primary or Substream	Unlimited		
	Channel Audio Stream Supported			
	Real-Time Messaging Protocol Support: YouTube, Wowza, Generic RTMP			
	Unlimited RTMP Channel Support			
Data Sources	Data Source: Profile - Encoding, Mappings, Map Variable Supported	Available	Available	Available
	Data Source Type: TCP - Client / Server: Host - Port, UDP - Port, ComPort - Com Port / Buad Rate / Data Bits / Stop Bits / Parity			
	Time Series Database - Days, Intervals, Tables			
Data Channels	Data channel: Provides a visualization of textual date from a linked Data source - Data ID, selectable channel recording destination	Available	Available	Available
	New Data channel: Details / Members / Membership / Permissions			
	New Data channel group: Details / Members / Membership / Permissions			
Mail Servers	Aggregation Support: Count / Time	Available	Available	Available
	Server Addres: Host URL, IP Address			
	Security Mode: None, STRTTLS, SSL/TLS			
	Test function: Send test email notification page to an email recipient			
	Unlimted Email Servers Support			

CORTROL Server Management Console

GSM Modems

Feature	Essentials	Premier	Global
AT command set supported			
Generic GSM modem support	Available	Available	Available
SMS Mode: Text, PDU			
SMS Encoding: ASCII, UCS2			

MQTT

Feature	Essentials	Premier	Global
MQTT protocol version: 3.1.1, 5			
SSL/TLS version: None, 1.1, 1.2, 1.3	Available	Available	Available
MQTT Certificate supported			
MQTT last will and testament support			

Reports

Feature	Essentials	Premier	Global
Count Based Reports: External Analytics Meta Data, E&A Counters - Reset, Increment, Decrement			
Report Email Auto Send			
Report Aggregation: Minute, Hour, Day, Week, Month	Available	Available	Available
Report Interval: Current Day, Previous Day, Previous Week, Previous Month			
Report Chart: Bar, Line, Pie			
Report Filter: Week Days, Time (Minutes, Hours)			

Access Control

Feature	Essentials	Premier	Global
Access Control: Door, and Door Permissions (Two-way integration)			
Continental Access Control (One-way integration, Continental pulls in CORTROL video channels)			
FEENICS "Keep" - Integration of Door controls, Events, People (Two-way integration)			
Gallagher - Integration of Door controls, Events, People (Two-way integration)			
GSF Corporation "Visual Access Systems" - Integration of Door controls, Events, People (Two-way integration)			
Inner Range Integriti "Access Control"			
Kantech support for the "EntraPass" Access Control System ***New in 1.28.0***	Available	Available	Available
Keri Systems "Doors.NET" - Integration of Door controls, Events, People (Two-way integration)			
NEDAP AEOS - Integration of Door controls, Events, People (Two-way integration) - 2023.x supported			
Paxton - Integration of Door controls, Events, People (Two-way integration)			
Satel Integra ETHM-1 Access Control Device: Integration is aimed for Alarm Panel ARM/DISARM events and actions			
Roger RACS 5 - Integration of Door controls, Events, People (Two-way integration)			

Events

Feature	Essentials	Premier	Global
Access Control System Events			
Auxiliary Device (Non-video) Events			
Device: BLK247 VCA event "Human" (Requires external AI module)			
Device: BLK247 VCA event "Non-Human" (Requires external AI module)			
Channel: Motion, Motion Started / Stopped			
Channel: Recording Error / Recovered			
Channel: Video Lost / Restored			
Channel Group: Motion, Motion Started / Stopped			
Channel Group: Recording Error / Recovered			
Channel Group: Video Lost / Restored			
Custom: Variable value (Mapping metadata, POS, from device/camera)			
Custom: Data Source (Text Source triggering)			
Custom: Digital Input - Channels			
Custom: Door - Access Control Door	Available	Available	
Custom: External - HTTP API Trigger, LPR, Face Recognition			
Custom: External Service - Channels			
Custom: OPC Client Event - Variable / Value Type / Conditional Operator			
Custom: Event triggered by Modbus device			Available
Custom: Scheduled - Channel (Periodical / Scheduled)			
Custom: Counter value for camera, and Software side counters			
Custom: Variable Condition - Variable / Type / Conditional Operator / Value			
Custom: VCA - Channels			
Custom: Video Wall -			
Global Server: Disc Excluding			
Global Server: Connected / Disconnected			
Global Server: Failover Activating		-	
Global Server: Fall-Back Activating			
Global Server: Recording Error			
Global Server: Scheduled Event			
SMS Received Event	Available	Available	
User Button: Activation			

CORTROL Server Management Console

App	Features	Essentials	Premier	Global

Actions

Feature	Essentials	Premier	Global
Access Control - Keri Systems Doors.NET "Events"			
Access Control - Keep by FEENICS "Events"			
Channel: Pop-up on Screen			
Channel: Pop-up Playback on Screen			
Channel: Generate Alert Substream			
Channel: Generate Alert			
Counter: Reset / Increment / Decrement			
Custom: Activate Main Stream Recording Profile			
Custom: Activate Substream Recording Profile			
Custom: Activate PTZ Preset			
Custom: Activate PTZ Tour			
Custom: Control Digital Input			
Custom: Create Bookmark (Optional Request User Description)			
Custom: Device action (Device specific commands)			
Custom: Device action "Disable"			
Custom: Device action "Enable"			
Custom: Device action "Toggle"			
Custom: Device channel "Enable"			
Custom: Device channel "Disable"			
Custom: Device channel VA "Enable"			
Custom: Device channel VA "Disable"			
Custom: Door Action - Invalid / Lock / Unlock / TempUnlock			
Custom: External Service - Target Action (Example: FR - Add Subject)			
Custom: Export Snapshot to Local/Mapped/FTP Directory	available	Available	Available
Custom: Highlight Object on Map - Channel / User Button			
Custom: Control Modbus device			
Custom: OPC Client Action - Variable / Value Type / Value			
Custom: Popup Object - Channel / Layout / Map / Geo-Map / Video Wall (Specify viewport#)			
Custom: Run Program			
Custom: Send Email			
Custom: Send Email with a Snapshot			
Custom: Send HTTP/HTTPS request			
Custom: Send Event to Client - Display a Warning Message Box			
Custom: Send Event to Client - Display Event in Alerts			
Custom: Send Event to Client - Display Event in Mobile Application			
Custom: Send Event to Client - Display Event in Notification Panel			
Custom: Send Event to Client - Trigger Audio Notification			
Custom: Send SNMP Trap			
Custom: Start Playing an Audio File			
Custom: Stop Playing an Audio File			
Custom: Write to Application Log			
Custom: Write to Audit Log			
Layout: Pop-up on Screen			
Map: Pop-up on Screen			
SMS Send action (Requires GSM Modem)			
Variable Condition Event based on VCA Counters value (more, less, equal)			
Window popups for "CrossLink" (controlled via Console) ***New in 1.28.0***			

CORTROL Server Management Console

Modifiers

Feature			
Global Event: Send Global Event	Available	Available	Available
Condition: Unset / Set			
Schedules:			
Counters: Reset / Increment / Decrement			
OPC			
Indicators			

Monitoring

Feature			
Servers: Status / Connection / Synchronization / Version / Failover / Resources (CPU, Memory, Network)	Available	Available	Available
Devices: Status / Server / Device / IP / Port			
Channels: Status / Server / Resolution / Codec / Substream Resolution / Substream Codec / Recording / Onlinej / Device model / IP / Port / Error / CVA Resources			
Streams: Channel / Stream Type / Status / Server / Device / Storage / Directory / Prerecording time			
Archive Statistics: Channel / Begin Date / End Date / Duration / Size / Protected			
Storage: Status / Server / Path / Encrypted / Free Space / Used Space / Total Space / Queue length / Last Available Time			
User Sessions: Title / Remote address / Start Time / Type / Software version / Resources (CPU, Memory, Network)			
Video Walls: Title / Screen / User / Remote IP			
Data sources: Title / Status / Server / Data Received Time / Error			
External Services: Title / Status / Server / User / Remote Address			
Reports: Title / Status / Time			
Access Control: Status (Normal/Critical), State (Open/Closed/Locked) Alert Flags, Status Time			
OPC: Status / Connected / Last (Error/Event Error), Status Time			
Indicators: Status (Normal/Critical), Connected (Yes/No), Operational State, Status Time			
GSM modems: Title / Status / Server / Error			
MQTT clients: Title / Status / Server / Error			
Databases: Title / Status / Server / Error			
Export to CSV			

Audit

Feature			
Servers: Time / Server / Event / Information / Additional Informaiton	Available	Available	Available
Servers: Filter - By Time / By Events / By Servers / By Resources			
Users: Time / User / Conection Address / Connection Type / Event / Server / Information / Additional Informaiton			
Users: Filter - By Time / By Events / By Servers / By Users / By Resources			
Problems: Time / Server / Event / Informatin / Additional Information			
Event: Internal Server events			
Event: Resource access - Archive/Bookmark/Live/PTZ/Video Walls/Exported/External (Data/Service)/VCA			
Event: Server security - Updated/Accessed/Added/Removed/PW Changed/Log (in/out)			
Event: Uncatagorized			
Event: Access Control			
Event: Events & Actions			
Event: External Services - Extneral Service/Service Group (Added/Removed/Updated)			
Event: Installation - Remote Update Request			
Event: Recording Configuration/Profile/Schedule (Added/Removed/Updated)			
Event: Resource Administration (Added/Disabled/Enabled/Removed/Updated)			
Event: Failover management - Added / Removed / Updated	-		
Event: Rule Modifiers, Action/Event/E&A Rule/Global Event/Mail Server (Added/Removed/Updated)			
Event: Time (All/Day/Week/Month)			
Event: When data is skipped when replicating ***New in 1.28.0***	Available	Available	
Event: Resources (Server, User, Channel, Device, Recording, Layout, Organization, Map, Map Group, Event, Action, Mail Server, Layout Template, Failover Cluster, Network, Visual Group, Video Wall, User Button, External Servce, Data Source, Counter, Report, Door, Access Control, Digital Certificate, Indicator			
Export to CSV			

Portable Player — Functions

App	Features	Essentials	Premier	Global
	Dewarp support for Playback of Native Archived Data	Available	Available	Available
	Proprietary Archive Playback - Playback of CORTROL's Native Archived Data			
	Library listing of CORTROL Exported Archived Data			
	Archive Search Navigation:			
	Archive Search Bookmarks: Search Record Limit 1,000 Bookmarks			
	Archive Search Video Analytics Meta Data: Object, Counter, Event, Class			
	Archive Search Calendar (Month|Day|Time): All Visible Channels, or Per channel			
	Archive Search: Data Protection / Deletion (User Authentication Required)			
	Copy Exported Video to user defined media, option of Portable player			
	Export Video: With/Without Audio - Selected Channel, All Channels Combined, All Channels Separate			
	Export Snapshot: Sub-Titles, Selected Channel, Multi-Channel (All Visible Channels)			
	Format: MP3 audio			
	Geo-Maps Playback with Mobile GPS meta data support			
	Playback speed controls: regular, slow and fast (Up to 8x speed)			
	Playback Channel Statistics: Recording Type, Codec, Resolution			

Client — Functions

App	Features	Essentials	Premier	Global
	Client Application UI Restrictions - To hide UI elements	Available	Available	Available
	Panes: Layouts			
	Panes: Layouts > Local Layout Templates			
	Panes: Layouts > Local Layouts			
	Panes: Layouts > Local Layout Sequences			
	Panes: Layouts > Shared Layouts			
	Panes: Layouts > Server Layout Templates			
	Panes: Channels			
	Panes: Playback Channels			
	Panes: Alarms			
	Tabs: Live			
	Tabs: Playback			
	Tabs: Sequence Explorer			
	Tabs: Smart Search			
	Tabs: Alerts			
	Tabs: Library			
	Tabs: Reports			
	Tabs: Video Wall			
	Tabs: External Services (LPR, FR, and HTTP API modules)			
	Tabs: Data Sources			
	Tabs: Access Control			
	Menu buttons: File			
	Menu buttons: Edit			
	Menu buttons: View			
	Menu buttons: Tools			
	Menu buttons: Help			
	Menu buttons: Connections			
	Menu buttons: Video Analytics Conntections			
	Live Toolbar: Multidisplay Setup Button			
	Live Toolbar: Screen Contents Button			
	Server Connection Dialog: Remember Password Option			
	Live Alarm Tabs: Create new tabs			
	Live Alarm Tabs: Lock/unlock existing tabs			
	Live Alarm Tabs: Edit locking tabs			
	Live Alarm Tabs: Edit unlocking tabs			
	Cookies: Clear cookies upon Client application exit (Related to use of Crosslink Basic Web URL)			

Server/Console/Client	**Language Support**	Chinese (Simplified, PRC) Chinese (Traditional) Czech (Czech Republic) Dutch (Belgium) English (England) English (United States) French (France) German (Germany) Indonesian (Indonesian) Italian (Italy) Korean (Korea) Latvian (Latvia) Malay (Malaysia) Polish (Poland) Portuguese (Brazil) Russian (Russia) Serbian (Cyrillic, Serbia) Slovenian (Slovenia) Spanish (Mexico) Spanish (Spain) Thai (Thailand) Turkish (Turkey) Ukrainian (Ukraine)	Available	Available	Available
Mobile and Web	**Mobile / MacOS**	Archive Playback: Per Channel Playback, GoTo Date/Time Battery Intensive Decoding Icon (When Software Decoding is Required) Chrome Cast Supported Codec Decoder: Hardware / Hardware & Software / Per Codec Configuration: JPEG / H.264 / H.265 / VP8 Channel Sets: Create / Modify (User Created Channel Groups) Edge Recording Storage Restrictions: (100/200/500)MB, (1/2/5/10/20)GB, All Available Space Edge Recording support: Offline Recording with Later Upload to Server Event Notification: E&A Notifications Pushed from Server GPS Meta Data: Stream Device Location with Video to Server Languag Support: English, French, Italian, Dutch, Polish, Russian Layout Options: 1x1, 2x1, 2x2, 3x2 LDAP/AD Support Local Storage Support: Internal / SD Card (Device dependent) Mobile OS Support: Android / Android TV / iOS / iPadOS Mobile Camera: Back/Front, Codec, Resolution (Up to 4K), Bitrate, FPS, Microphone Maintain Aspect Ratio: On/Off Network: WiFi & Mobile Data (Celular data), WiFi Only (VPN Supported) Panic Button: One Touch Quick Launch Streaming Panic Server: Target Server Streaming to PTZ: Control / Presets / Tours Server List: List of Servers to connect to (Single Server Connection) Snapshot: Save to Photos iOS / Save to Local Folder Android Time Zone Support: Client , Server TLS 1.2 support added (TLS 1.0/1.1 deprecated) User Buttons: Support for Server Side User Buttons Video Statistics Display: Codec, Bitrate, Frame Rate, Resolution Video Stream: Auto / Main Stream / Sub Stream Widgets: Update Interval - 30Sec, (1/2/5/10/15/30)Minutes, 1 Hour	Available	Available	Available
	Web	Archive Playback Browser Support: Chrome, FireFox (Internet Explorer / Edge / Safari Not Supported) Custom view layouts Layout Options: 1x1, 1x2, 2x1, 2x2 Languag Support: English, French, Italian, Dutch, Polish, Russian LDAP/AD Support TLS 1.2 support added (TLS 1.0/1.1 deprecated) Two-way audio support PTZ control, presets Receive audio from Client GUI Substream playback Save snapshots	Available	Available	Available
		Server connections	Unlimited		
		Video & audio streaming from mobile devices	Available	Available	Available