

CAYUGA. SOFTWARE FOR VIDEO MANAGEMENT.



THE HEART

Cayuga is an enterprise-class video management system with advanced roll-out capabilities. It is designed for efficient implementation and management of large multi-site installations and provides a wide spectrum of both open interfaces and deep integrations. This allows it to be embedded seamlessly into any IT and security ecosystem.

Thanks to its modular approach, Cayuga can adapt to changing project specific requirements, making it a flexible and future-proof solution even beyond physical security.

UP FOR EVERY CHALLENGE

Commissioning

- Cayuga systems can be preconfigured offline as part of an industrialized roll-out process.
- All modules and components can be installed via a central installation routine.
- Wizards help to easily add new users, devices and alarm scenarios.

Privacy

- Cayuga enables the GDPR-compliant use of video systems, e.g. by masking or blurring image areas – thus protecting the privacy rights of customers and employees.
- Cayuga is certified for use in the banking sector.

Management

- Individual organizational structures can be mapped through detailed rights and role management.
- The Cayuga AutoUpdater keeps all system components up to date at all times.



Usability

- Individually configurable alarm scenarios enable rapid reaction in the event of an occurrence.
- The intuitive video player makes it easy to browse through archive recordings efficiently.
- Different client types (Native, Web and Mobile Client) offer flexible access to Cayuga-based video systems – even when on the move.

Connectivity

- Cayuga supports almost 5,000 cameras and devices from over 80 leading manufacturers.
- Powerful, open interfaces enable the simple, bidirectional integration of third-party systems (PSIM, access, burglary, video analysis).

Reliability

- Thanks to the integrated redundancy and failover concept, Cayuga systems can be optimally protected against system failures.

CAYUGA. LIMITLESS NETWORKING.

Made-to-measure solutions can only be implemented with the greatest possible level of interconnection. Cayuga permits existing and new systems to be linked in individually due to its high degree of openness and interoperability. Cayuga meets almost every possible requirement: a large number of hardware and software components can be integrated via interfaces and protocols – this makes Cayuga the ideal solution for large and complex projects.

The outlay is low for new installations because Cayuga can be quickly and easily integrated into your existing system environment. Connectivity also means that old systems can be retained and can continue to be used. All this ensures that Cayuga delivers cost-effective and sustainable solutions.

MULTIPLE INTERFACES

Via a set of powerful interfaces, Cayuga can interact with a large number of third-party systems in your software ecosystem:

- Software Development Kit (SDK)
- Gateway Services (SGS)
- Analytics Interface (SAI)
- Event Interface (SEI)
- OPC UA Server

SYSTEM INTEGRATION

- Industry-specific systems such as cash register and ERP systems are integrated quickly and easily via a business application interface (driver-based concept).
- Security systems such as building management and PSIM systems, access control systems, burglary and fire alarm systems as well as security control centers and control center solutions can be integrated via interfaces.
- Further third-party systems can be integrated via network I/Os and TCP triggers.
- VoIP-enabled devices are connected via integration of SIP servers.
- OPC UA, the leading cross-system standard in automation and safety technology, is supported.
- Active Directory Support/Single Sign-on for central administration and rights assignment for all users and convenient system access.



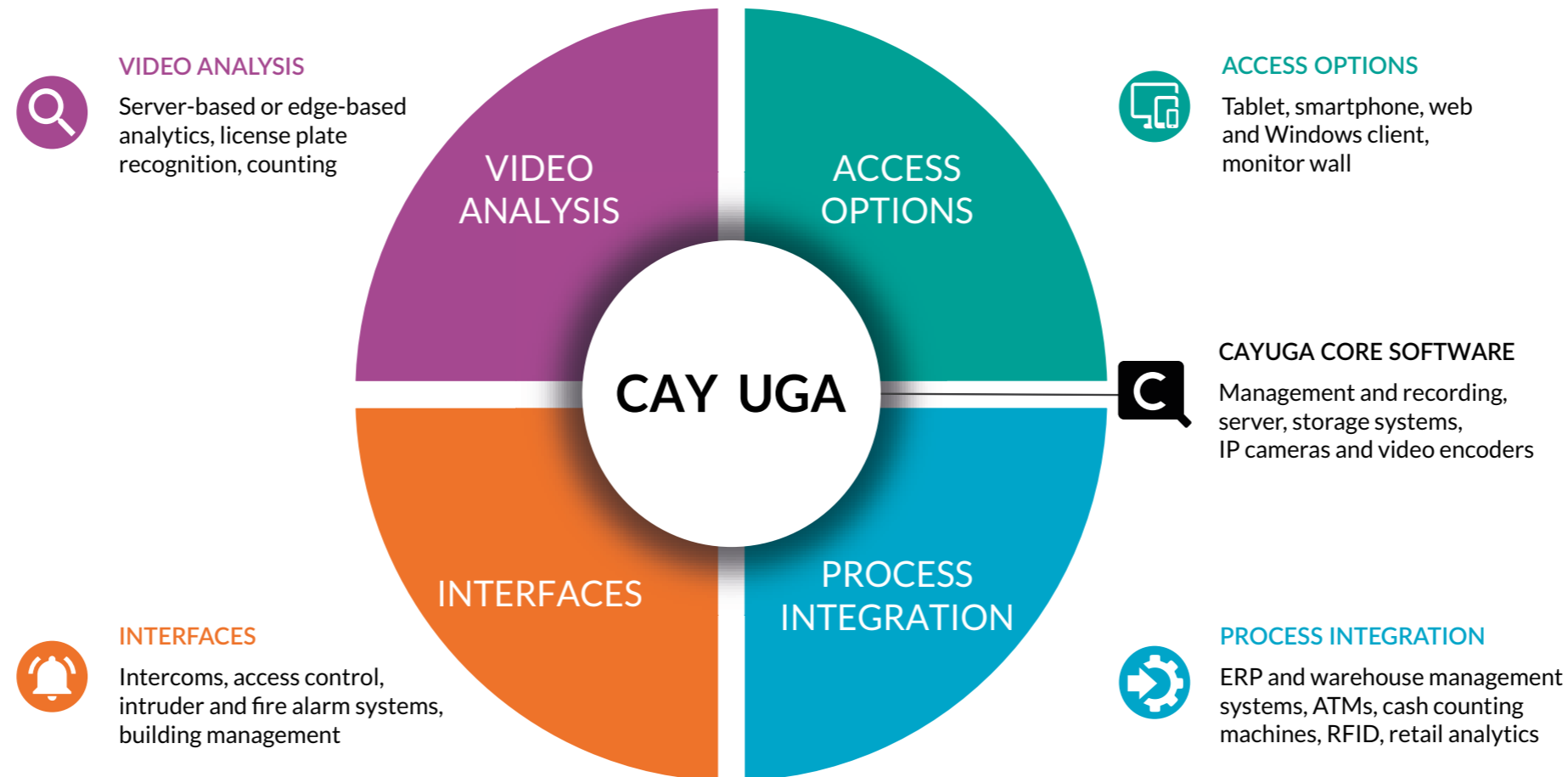
Transparency for your business: BVI
As an extension to Cayuga, BVI combines video and business process data – for optimized operations and faster response.

HARDWARE INTEGRATION

- Cayuga is manufacturer-independent – it supports a large number of camera models from various manufacturers.
- In addition, many other camera models can be integrated via the ONVIF standard.
- Analog cameras and systems are integrated via video servers.
- Smart Drivers allow for easy integration of new camera models.

SOFTWARE INTEGRATION

- Video analytics applications (server- or camera-based) from other providers can be flexibly integrated via the Analytics Interface (SAI).



CAYUGA VIDEO ANALYTICS. MAKE THE RIGHT DECISION.

The highly specialized evaluation and analysis tools in Cayuga qualify the image data received and filter out all relevant information – either directly or in combination with existing business data. A custom compiled set of analysis tools is used to issue specific information that is important to you. Intelligent analysis routines allow you to record and evaluate results more quickly – and make the right decisions as a result.

ANALYSIS FUNCTIONS

- **Cayuga Analytics Server 3D:** Powerful integrated video analysis module for perimeter protection
- Server-based **motion detection** – can be activated quickly and easily via Record on Motion function; additional support for camera-based motion detection
- **ISearch:** Ex-post search function in archive recordings for faster tracking of events
- **Counting:** Object and people counting generates a continuous flow of information to support decisions

ANALYTICS INTERFACE

The range of functions in Cayuga also allows you to use the Analytics Interface (SAI) to integrate camera and server based analysis functions from other manufacturers. This means: With Cayuga you can utilize all the latest analysis functions for your company – for optimum video management. Solutions from these manufacturers are currently supported:

- **Axis:** Perimeter Defender (camera)
- **Bosch:** IVA (camera)
- **Digital Barriers:** SafeZone (server/camera)
- **Forlan:** arealvis, gatevis, objectvis (server)
- **Siemens** (server)
- **TechnoAware** (server)

LICENSE PLATE RECOGNITION

By using automated license plate recognition, processes can be simplified and costs saved. Qognify offers flexible solutions that meet your specific requirements and objectives.

The **Cayuga LPR Module** (License Plate Recognition) can automatically read license plate formats from many countries, even formats with Cyrillic and Arabic characters. It can cover multiple lanes at the same time.

Via the **Analytics Interface**, license plate recognition tools from third-party manufacturers can also be integrated. Currently, solutions from the following manufacturers are supported:

- **Axis** License Plate Verifier (camera)
- **NumberOK** Lite (server)
- **Tattile** (camera)



Cayuga optimises the tense parking situation in Paris

A distributed installation of Cayuga with LPR helps a leading car park operator make car parks safer and processes more efficient.

Possible applications: Traffic monitoring, access control, barrier control, allocation of parking spaces and loading stations, etc. License plate recognition is also suitable for marketing purposes, e.g. to determine the geographical catchment area of customers.



LPR

License plates are read out with complex algorithms. The acquired data can be automatically provided for further applications.

CAYUGA ANALYTICS SERVER 3D



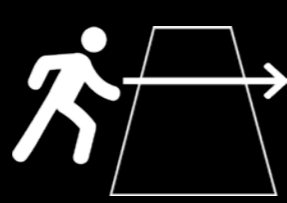
INTRUSION

An alarm will be triggered when one or several objects enter a zone.



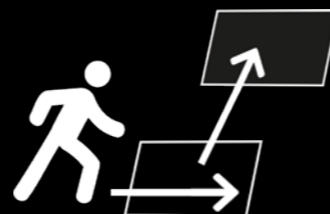
LOITERING

If an object remains in one zone longer than for a defined period, an alarm will be triggered.



ZONE CROSSING

An alarm will be triggered when an object crosses two zones in a certain order or in the wrong direction.



CONDITIONAL

The alarm is only triggered if several zones have been crossed in a certain order.

For Cayuga, Qognify offers a powerful server-based video analytics module. The video analysis automatically directs the users' attention to risks and dangers on the basis of individually definable rules, thus enabling targeted alarm processing. It can reliably distinguish between different object types (persons, vehicles).

Possible applications: perimeter security, monitoring of security-relevant areas such as railway stations, airports, prisons, power plants and companies, theft protection in retail and much more.

A special 2D analysis mode for securing facades prevents people from entering buildings via windows or skylights and reliably detects the abseiling of people or objects (e.g. for correctional facilities).

Cayuga combines maximum functionality and maximum user-friendliness. The user interface impresses with an exceptionally clear layout, which offers intuitive user guidance. Cayuga exploits the benefits of modern operating concepts and combines them with ingenious functionality and optimum ergonomics – right down to a glare-free night mode.

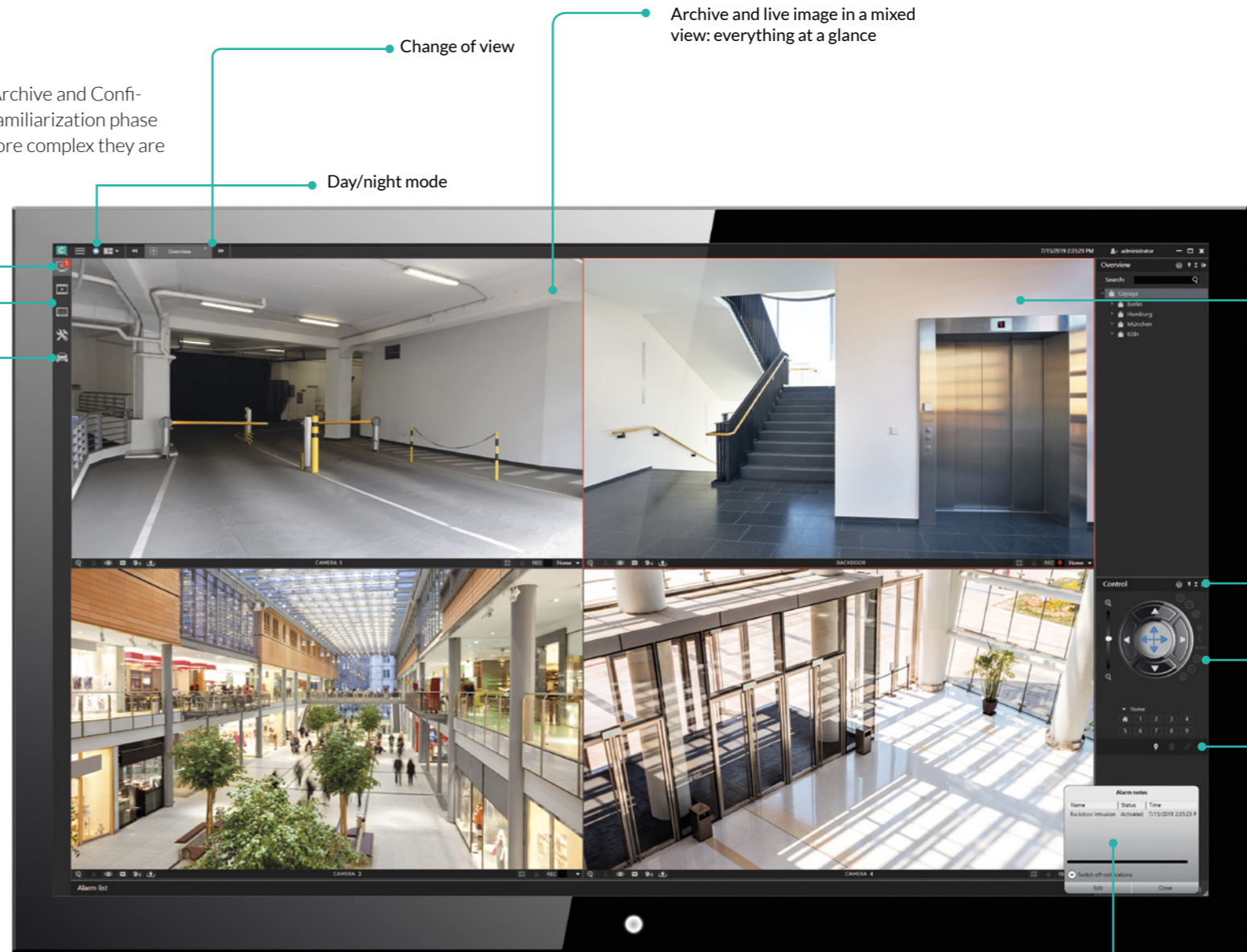
This gives you a clear overview at any time so that you can respond quickly – in Live, Archive and Configuration mode. Cayuga is easy, fast and effective in operation, even with just a short familiarization phase – an advantage that becomes all the more important for company installations, the more complex they are and the more facets they include.

TIME-SAVING FUNCTIONALITIES

- Multi camera configuration for rapid setup and modification of camera functions
- Camera selection via lasso directly in the layout plan – to understand a situation as fast as possible
- Placing views by „drag & drop“ onto video walls

EFFICIENT ALARM MANAGEMENT

- Alarm counter and toast messages – to have all current alarms always on screen even in archive mode
- Color definition – classifies alarms to always stay on top of things
- Pre-defined 2 x 2 view with Pre-Alarm-/Live/Archiv/Trigger view – to have an improved understanding of events



- Alarm counter
- Practical tabs for switching
- Icons for the direct selection of extension modules

Change of view

Day/night mode

Archive and live image in a mixed view: everything at a glance

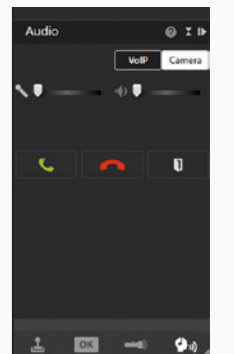
Clear and structured UI guiding the user

Hideable controls

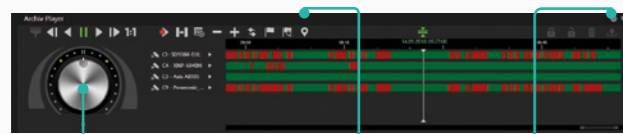
PTZ control for effortless navigation

Toast messages

All audio functions (e.g. voice over IP) in one location



ARCHIVE PLAYER



Shuttle wheel

Bookmarking and export with selection pins

Export overview

- Shuttle wheel for rapid navigation in archive mode
- Bookmarking makes it easier to find events in the archive
- Easy export of sequences in one step via selection pins (export procedures in the background are displayed via counters and progress bar)

CAYUGA. EVERYTHING UNDER CONTROL.

In a mobile world with global business relationships, video management is required to work properly regardless of location. Cayuga offers practical and state-of-the-art access options and transmission solutions that allow you to keep an eye on your company from anywhere in the world. It goes without saying that your data is secure at all times.

FLEXIBLE ACCESS OPTIONS

WEB & MOBILE CLIENT

For fast and flexible system access. Additional video plug-ins are not required as all image streams are converted into a uniform format. Cayuga Web & Mobile Client are available for various mobile devices, e.g. tablets and smartphones (iOS and Android).

CAYUGA ANYWHERE

With the Cayuga Anywhere package, you can start Cayuga on any computer without prior software installation. Depending on user rights, Anywhere offers all functions of the installed version, such as live and archive view, administration and system configuration.

DISPLAY AGENT/VIRTUAL MATRIX

For the integration of large screen systems and video walls from various manufacturers. The video walls can be controlled via the standard Cayuga client.

PORTABLE VIEWER

Light-weight version of the Cayuga client for playback of the encrypted video data exports, usable without installation, e.g. directly from a drive medium.

MULTI INSTALLATION LOGIN

Allows a user (e.g. in an alarm center) to connect to multiple installations simultaneously and access all connected cameras.

PRIVACY PROTECTION

Cayuga offers various mechanisms to protect the privacy of employees, customers and visitors. This means that sensitive areas of the image or moving objects can be anonymized.

Cayuga is also well protected on the system level: Data between the server and client is sent encrypted – one reason why Cayuga has been certified for various use cases, e.g. within the financial sector.

OPTIMIZED IMAGE DISPLAY

TRANSCODING

For optimum image transmission with narrow-band network connections: By transcoding video streams, images can be transmitted live and in the archive from the server to the terminal device with optimized bandwidth.

SMOOTH STREAMING

Do you value smooth live playback of your video images? Smooth streaming is the default setting in Cayuga. However, if you want to minimize the time delay of recorded streams, you can switch to low latency mode at any time.

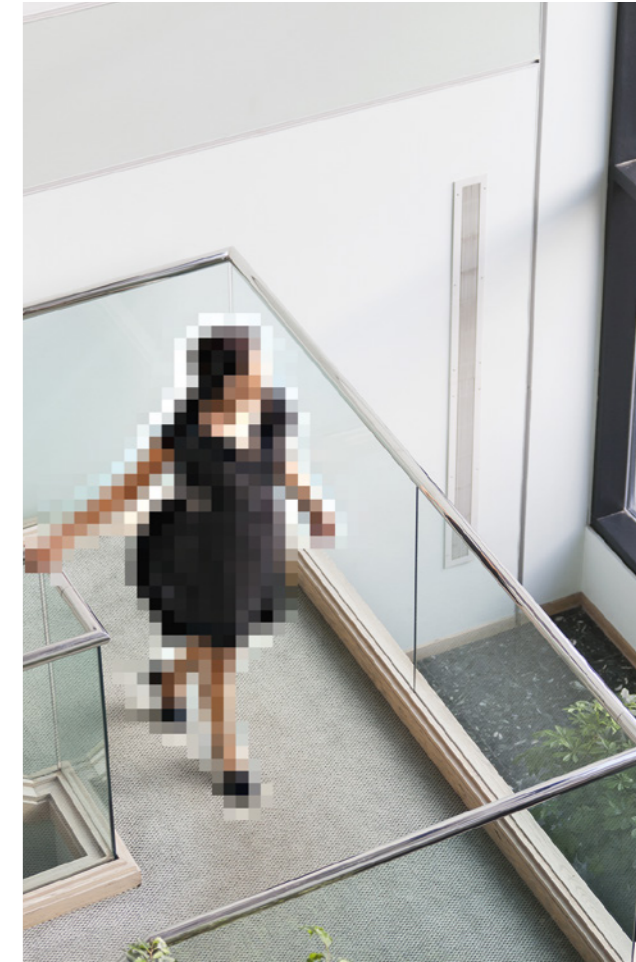
IN ACCORDANCE WITH LEGAL REGULATIONS

DATA SECURITY/GDPR

Cayuga offers a number of functions to operate video systems in a secure and GDPR-compliant manner and to provide the best possible protection of privacy. Additional administrative functions such as the four-eye principle (entering of a second password) also provides software security on who can see the data recorded.

CYBER SECURITY

Data transmission between modules as well as between server and client is carried out using 128-Bit encryption.



Valuable insights for retail

International retail chains often use Cayuga with BVI to improve their processes and gain valuable information about the buying behavior and profitability of their stores.



PRIVACY MASKING

Sensitive image areas (e.g. break and recreation rooms, public areas) are masked by a freely definable area and hidden in the live and archive images, depending on rights.

MOTION SCRAMBLING

Moving objects or objects that differ from a reference image defined in advance are displayed pixelated in the live image and thus anonymized.

CAYUGA. FLEXIBLE CONFIGURATION.

Cayuga is optimally customizable for the organizational structures of your company – up to any conceivable size. Thanks to the distributed installation of the software across multiple servers, any level of scaling is possible. This means that the servers can be positioned in different locations if required (e.g. stores).

All users of the software are included individually in line with their various rights. This means that even large systems distributed worldwide with several thousand cameras can be managed and controlled centrally using Cayuga.

The overall system architecture physically separates the clients from the server. As saving image data and communication with the cameras are integrated as system services, it is not necessary to launch a separate program on the server and no local login is required. Using this structure, even highly complex applications are made possible.

USER MANAGEMENT WITH DIFFERENT ADMINISTRATOR LEVELS

Cayuga permits the management of over a thousand users. Every user can be individually allocated detailed rights to cameras with control elements (e.g. PTZ control) and additional Cayuga components such as buttons or layout plans. The rights matrix follows the organizational chart of your company.

MULTI CONFIGURATION TOOL

Simplifies and accelerates the setup of cameras and camera groups.

ADVANCED ALARM SCENARIOS

In Cayuga you can define and specify complex alarm scenarios as to how to respond to specific events in case of an alarm, or which third party systems are actuated.

AUTOUPDATER

Helps you to always keep your version of Cayuga up to date – even automatically with a valid Support and Maintenance Agreement (SMA).

WIZARDS

Offer user-guidance dialogs to simplify the processes when creating new system elements, e.g. cameras and alarm scenarios.



FAILURE SAFETY

High availability with Cayuga is achieved by a combination of redundant system management and fail-safe recording. Using standard IT equipment, you can reduce the downtime of your system to a minimum – regardless of its complexity.

01

REDUNDANCY

If the central administration server is unavailable, a proxy server comes into play and permits error-free operation of the system with the existing user rights (island mode). Windows Cluster and virtualization are supported.

02

FAILOVER

If a recording server fails, a hot-stand-by server automatically takes over and recording continues reliably.

03

MIRRORED RECORDING

In the event that the recording server is removed or damaged, the DM failover server can be configured to mirror the recordings completely redundant.



Cut your operating costs

With umbrella, our management platform for distributed Cayuga video systems. Your benefit: Configuration, management and monitoring of independent Cayuga installations – centrally and across all sites.

CAYUGA. VARIABLE AND SCALEABLE.

Cayuga is available in license packages for three sizes – for up to 50, up to 100 and for an unlimited number of cameras. In addition to the basic packages there are extension modules adding further functions such as analytics or LPR. All details are given in the adjacent table on the right.



S50 X

Scalable VMS for small and medium-sized installations at one site

S100

Professional VMS for medium-sized to large installations at one site

Infinity

Professional VMS for large installations and complex system environments covering multiple sites

Infinity X

High-end VMS with failover functionality for large installations covering multiple sites

LANGUAGES

Cayuga is available in 14 languages: English, German, French, Danish, Swedish, Norwegian, Russian, Turkish, Dutch, Spanish, Italian, Polish, Czech and Portuguese.

FREE DOWNLOAD

Try out Cayuga free of charge, no strings attached!

At www.qognify.com you can request a fully functional 30-day test version to download.

MANUFACTURER INDEPENDENCE

There is a wide variety of camera models available on the market from a large number of camera manufacturers – each with advantages and disadvantages that need to be weighed up carefully in the project planning phase. Qognify therefore pursues a manufacturer-independent design concept.

With Cayuga you can operate network cameras and video servers from all well-known manufacturers as well as numerous I/O and SIP modules, alarm triggers and video sensors. Standard server systems from all leading manufacturers can also be used as Cayuga server hardware. The free selection of IT and camera hardware makes it easy to achieve the optimal price/performance ratio.

An up-to-date overview of all devices (cameras, encoders and hardware I/Os) supported by Cayuga can be found on our website: www.qognify.com

THE CAYUGA PRODUCT PACKAGES

Product Package	S50 X	S100	Infinity	Infinity X
Live & Archive View	✓	✓	✓	✓
Alarm Recording	✓	✓	✓	✓
PTZ Control	✓	✓	✓	✓
Maximum No. of Camera Channels	50	100	unlimited	unlimited
Maximum No. of Concurrent Users	5	10	unlimited	unlimited
Maximum No. of Recording Servers	1	2	unlimited	unlimited
Centralized Management	X	✓	✓	✓
Maximum Number of I/O Devices	5	10	unlimited	unlimited
Web & Mobile Client	✓	✓	✓	✓
Anywhere (Viewer, Client)	✓	✓	✓	✓
Redundant System Administration	X	✓	✓	✓
Failover Recording	X	X	X	✓
Mirrored Recording	X	X	X	✓
Multilevel Administration	X	X	✓	✓
Business Video Intelligence (optional)	X	✓	✓	✓
Display Agent	X	✓	✓	✓
Software Development Kit (SDK)	X	✓	✓	✓
Multimedia Application Gateway	X	✓	✓	✓
Active Directory Support	X	X	✓	✓
Maps/Floor Plans	✓	✓	✓	✓
Sequential Alarm Window	X	X	✓	✓
Extended Alarm Scenarios	X	✓	✓	✓
Encrypted Transmission	✓	✓	✓	✓
Bandw. Optimized Archive Playback	✓	✓	✓	✓
Motion Scrambling	X	✓	✓	✓
Multi Installation Login	X	✓	✓	✓
VoIP Support	X	X	✓	✓
Edge Storage Support	X	✓	✓	✓
Server Based Motion Detection	✓	✓	✓	✓
Camera Sabotage Detection	X	X	✓	✓
Analytics Server (optional)	X	✓	✓	✓
Analytics Interface (SAI) (optional)	X	✓ ¹	✓ ¹	✓ ¹
Event Interface (SEI) (optional)	X	✓	✓	✓
LPR (optional)	X	✓	✓	✓
Access Control Integration (optional)	X	✓ ¹	✓ ¹	✓ ¹
Intrusion Detection Integration	✓ ¹	✓ ¹	✓ ¹	✓ ¹
Intercom Integration	X	✓ ¹	✓ ¹	✓ ¹
Monitor Wall Integration	X	X	X	✓ ¹
OPC Integration (Server)	X	✓	✓	✓

¹ A list of supported solutions /devices will be provided by Qognify on request.



Qognify helps safeguarding your world, focusing on the outcomes of customers, who place a premium on physical security. Qognify also sees itself as a trusted partner that helps customers around the world to minimize risks, increase security, and optimize operations.

The comprehensive portfolio of Qognify contains physical security and incident management solutions, which create added value for many sectors including manufacturing companies, transportation authorities, retail chains, banks and other financial institutions, ports and seaports, logistics service providers, schools and universities, correctional facilities, critical infrastructures and cities. In 2018, Qognify acquired the OnSSI Group with its brands OnSSI and SeeTec, thus forming a leading global player in the physical security market. Headquartered in Pearl River, New York, Qognify operates major development hubs in Germany and Israel as well as sales and support offices around the globe.

QUALITY AT QOGNIFY

As one of the first providers of video management systems worldwide, Qognify is certified with its quality management according to DIN EN ISO 9001.



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