

Next Generation

Surveillance Solutions



Cware

The Advanced Video Management & NVR Platform

Advanced Open Management

Benefit from the most effective CCTV management platform

Cware is an advanced video management and Networked Video Recording (NVR) platform that makes control of surveillance networks simpler and more effective than ever before.

Based on open standards architecture Cware provides the freedom to create integrated surveillance networks. Support of multiple IP cameras and encoders from a range of manufacturers ensures investment protection for existing network equipment and integration with new products and technologies in the future.

An advanced user-friendly interface that can be customized to meet individual requirements enables simultaneous access to live and recorded video making it easy for all levels of security personnel to operate and control the system. Comprehensive video management, on screen display, alarm, recording and playback features deliver support for limitless cameras, recording servers and operator workstations. Advanced features such as Image Content Navigation (ICN) and 2.5D Live Maps provide unrivalled video interaction, innovating the way locations are monitored.

Highly flexible and cost-effective architecture enables Cware to easily manage single or multiple locations and all sizes of installation, supporting thousands of cameras. A modular

approach utilising common PC, networking and storage hardware, provides a platform for endless scalability, without requiring full and costly system upgrades. The number of cameras, clients and storage capacity can be increased with ease and by supporting a high level of system redundancy disruption to security operations is minimized.

Having supplied thousands of solutions through a worldwide network of channel partner's, real world experience is at the heart of Cware development. Based on flexible architecture, boasting advanced features and designed specifically for the user Cware delivers all the advantages of a next generation management platform today.



Key Features



Integration

Cware is an advanced management platform that is user-friendly and provides comprehensive live viewing, recording and playback of video surveillance. As an open standards platform Cware supports integration with third party cameras, codecs and analytics providers such as Object Video. Cware enables operators to navigate and control video better than ever before.

Video Analytics

Video Analytics deliver increased efficiency for security surveillance operations. A wide range of events such as unauthorized movement in pre-defined target zones, loitering, perimeter breaches and theft of items are automatically detected. Video is constantly scrutinized; all objects and events are classified against user-defined security policies, filtering all extraneous background data. If a policy has been broken a wide variety of automatic counter measures can be taken. For example, cameras can automatically zoom and track objects, recorded audible alarms can be played and emails or text messages can be sent to notify security personnel.

Image Content Navigation (ICN)

ICN addresses a major issue for the management of large video surveillance systems. When tracking a person or object around a site it is often difficult to keep up with the target. While a map based GUI partially addresses this issue by illustrating camera locations on a map, it does not provide the means to track a target as it moves between areas covered by different cameras. Remembering camera names and numbers, especially if users are unfamiliar with the site complicates this task. ICN solves this problem by connecting adjacent cameras together with an invisible mesh of hyperlinks. On screen the video changes to show the area that the target has entered. All the user has to do is 'point and click' on the hyperlink in the video to switch cameras (or just touch the screen when using a touch screen monitor) and continue tracking, instantly navigating from one camera to another. Any number of video channels can benefit from ICN support, even tracking of many objects in multiple views.

Dynamic 2.5D Live Maps

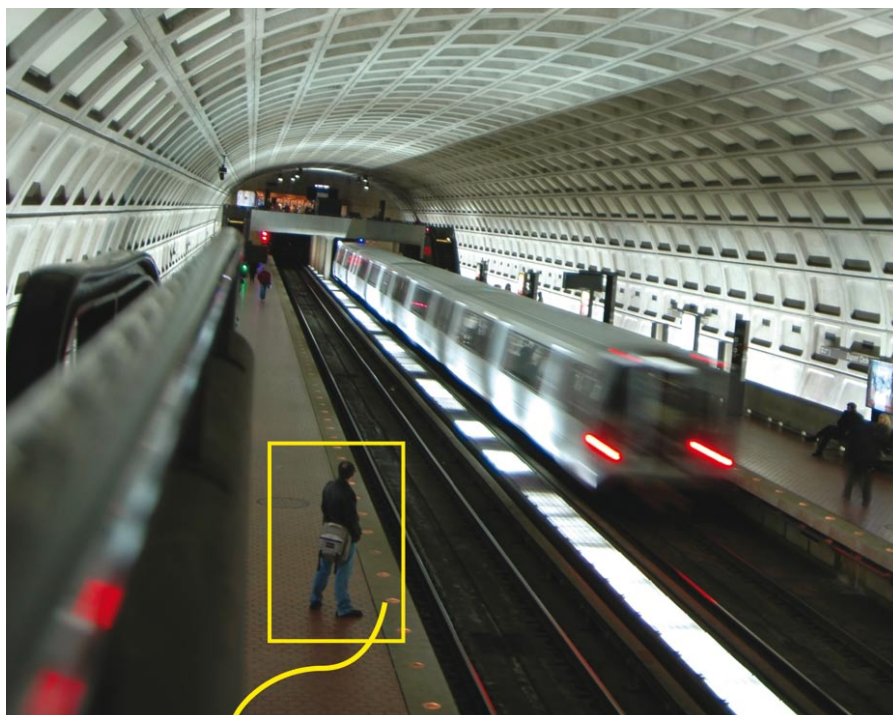
2.5D Live Maps technology is part of Controlware's innovative approach to site monitoring and control. This unique navigational tool provides the user with improved viewing and site navigation delivering a fresh alternative to traditional fixed size multi-map tools. Boasting a zoomable map with X / Y axis navigation, live camera preview, linked maps, hyper-links with preview image, customized view presets and more, this tool sets new standards for interaction with video surveillance. 2.5D Live Maps adds a set of tools for geographical navigation and site management that deliver greater efficiency enabling the user to control and navigate around a monitored site as if they are physically there.

Video Wall

Controlware's Video Wall – Virtual Matrix software is an external add-on module. It runs on separate PCs and provides an efficient solution for viewing practically unlimited numbers of camera images on multiple displays. Video Wall provides users with increased flexibility and access to network video for 24x7x365 real-time monitoring of multiple cameras. Video wall is connected to Cware over the IP network enabling centralized management and control of displayed layouts, formats and video channel selection.

Web Client

Web Client provides remote viewing and control of all live and recorded video from anywhere in the world. This add-on module enables online control of PTZ, analog and IP security cameras from multiple video servers in a single window. The Web Client module supports remote access for multiple users with authorization granted by the system administrator. Through Web Client users can monitor and control any site with simultaneous viewing of up to four live or recorded video channels. With a unique transcoding engine the Web Client works with any network bandwidth connection speed.



Video analysis improves the effectiveness of CCTV operations

Cware System

Open Standards

Multi-vendor support allows users to select the equipment they want to use from the manufacturers of their choice.

Video Analytics

Integration with Video Analytics found in cameras, encoders and external servers can be associated with triggers to activate video channels, drive video wall displays, drive external devices and send emails.

Flexible Client Server Architecture

Network expansion is cost-effective with support of limitless cameras, recording servers and operator workstations.

Viewing, Recording and Video Export

User Customization

Layouts including text, images and maps can be customized for specific users or groups, allowing quick familiarization with the system reducing training requirements. User friendly control is also possible through a range of options that include joystick, keyboard or PC mouse.

User-Friendly Interface

Cware is extremely easy-to-use with live and recorded playback that dramatically simplifies video surveillance as security requirements evolve.

Intelligent Video Tracking

The ICN tool helps track targets faster as they move between areas covered by different cameras. Users can follow targets on screen by clicking within the video. ICN improves user interaction with video surveillance.

Intelligent 2.5D Map Navigation

Intelligent 2.5D Live Maps technology allows live, snapshot and icon based viewing of video. Users can also zoom-in making navigation through hundreds of cameras much easier. Maps can be layered and linked according to the site and user requirements.

Recording & Video Search Tools

Fast video time, date and location searches enable rapid investigation of incidents and resolution of disputes.

Configurable Recording

Support for continuous or scheduled recording. Recording can be triggered by activity or alarms that enable more efficient storage of recorded images.

Bandwidth Management

Multi-unicast for non-multicast networks. Reduces costs in Layer 3 networks by having the servers create the video streams as requested by the clients.

Audio Streaming

Full duplex audio over IP. Audio enabled encoders communicate directly via the client to remote sites. This is useful for opening doors, intercom operations and as announcements over a PA system.

Advanced Alarm Management

Cware has an advanced I/O function that integrates alarms from external applications with configurable triggers, actions and alarm stacking. Alarms can be automatically or manually acknowledged in the alarm stack. Any alarm can be configured to trigger any event.

Easy Video Export

Options include Native video & AVI. The native video recording can be played back in its own player with the option to check the video integrity with watermarking. Transcoding to AVI allows playback through a standard Windows Media Player.

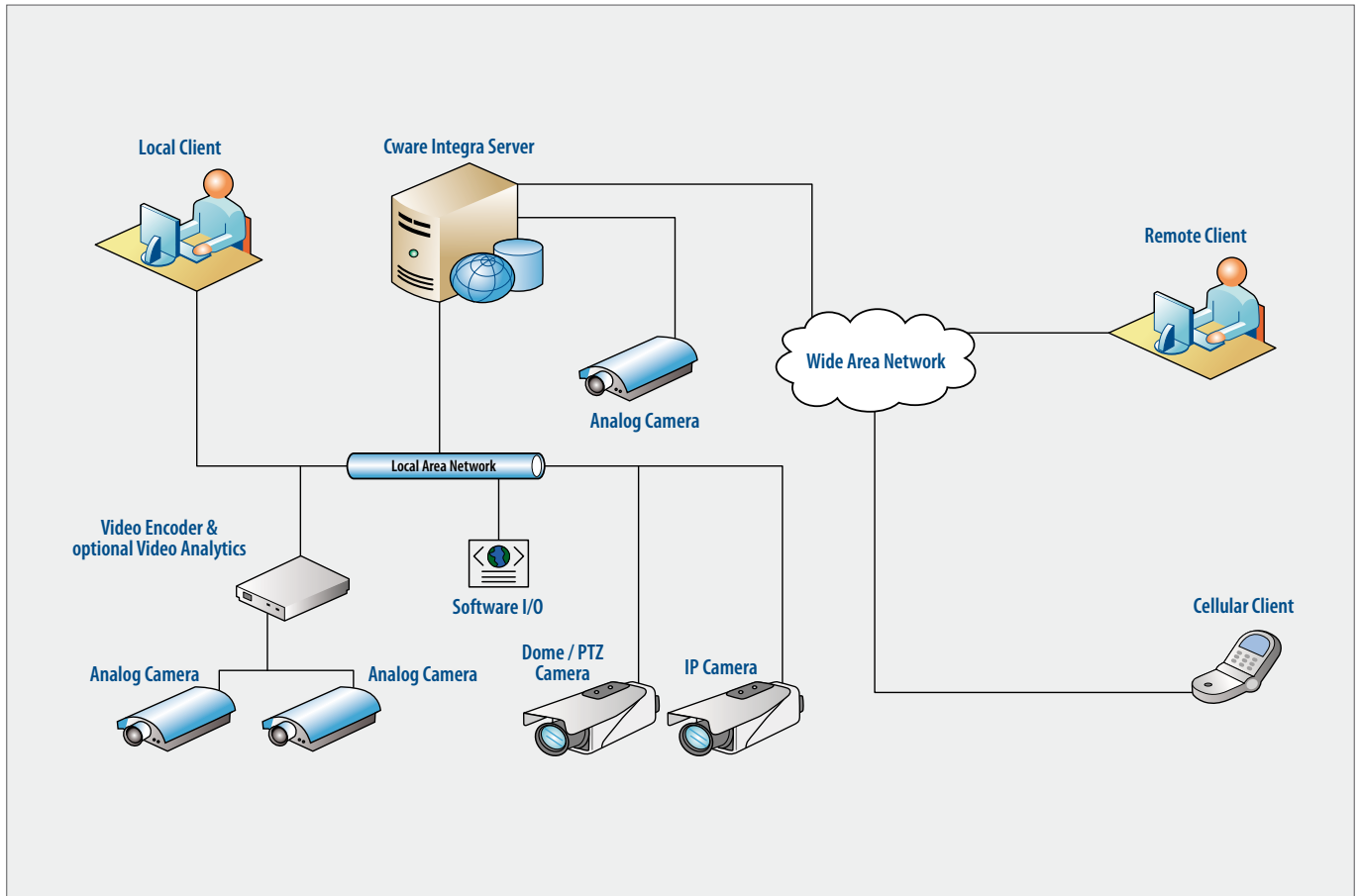
Web Client

Provides remote monitoring access from anywhere in the world.





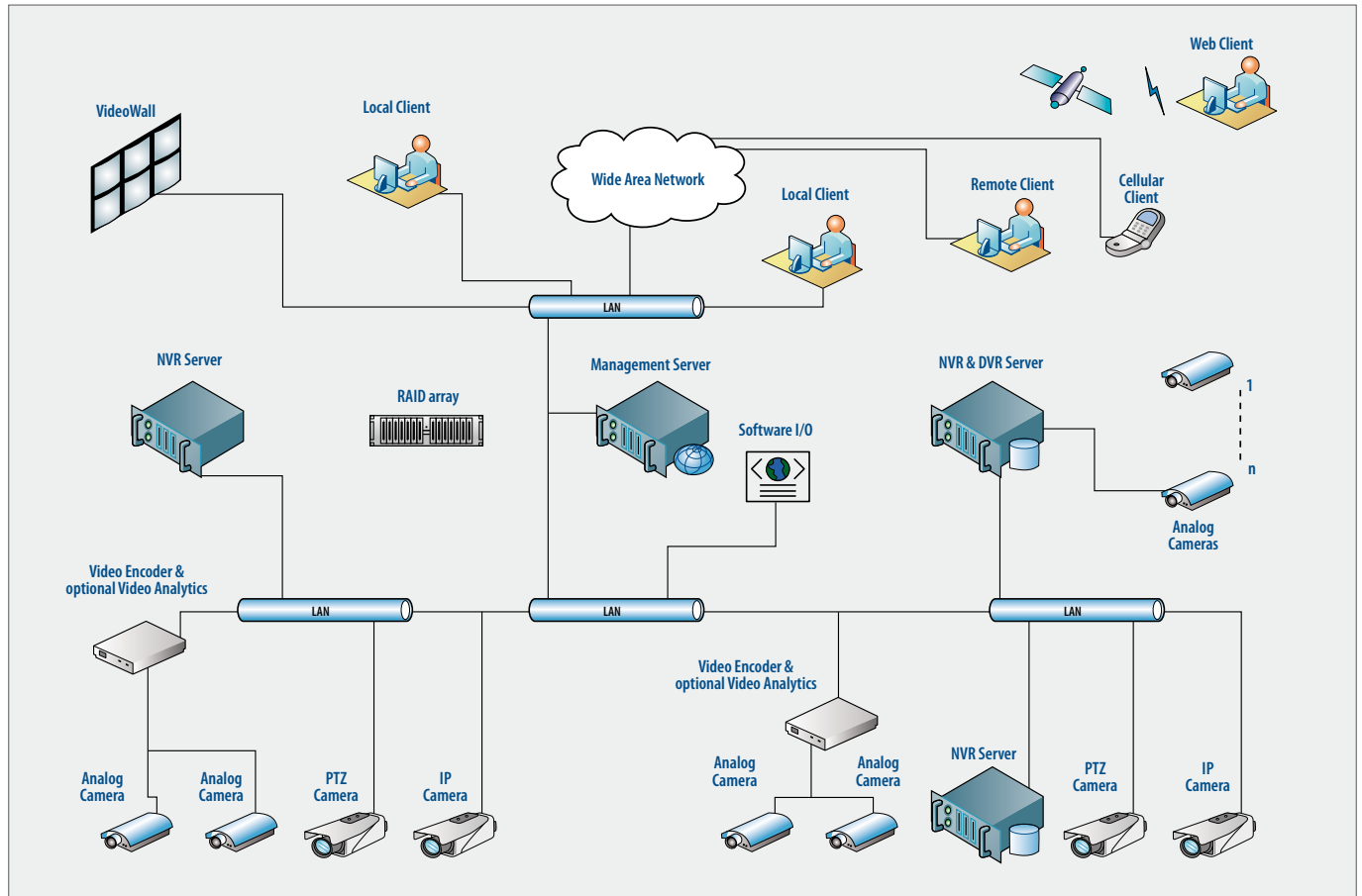
Cware Integra



Benefits

- All in one video management and recording solution
- One PC supporting up to 64 cameras
- Vendor independence enables easy integration with best of breed hardware
- Cost effective integration of analog and digital video components
- Easy to use surveillance platform with a friendly user interface
- Advanced alarm management with configurable triggers, actions and alarm stacking
- Remote access via Web Interface from anywhere in the world at any bandwidth
- Optional tools such as ICN and 2.5D Live Video Maps make surveillance easier
- User licensing based on cameras and concurrent users reduces total cost of ownership

Cware Prime



Benefits

- Client Server architecture provides greater flexibility and resilience
- Vendor independence enables easy integration with best of breed hardware
- Endless scalability supporting limitless cameras, recording servers and operator workstations
- Easy to use surveillance platform with a friendly user interface
- Advanced alarm management with I/O function that integrates alarms from external applications
- Optional tools that make surveillance easier such as ICN, 2.5D Live Video Maps
- Remote access via Web Interface from anywhere in the world at any bandwidth
- Up to X16 Fast Forward, Fast Reverse Playback Speeds
- View high-resolution video channels on networked PC's with Video Wall
- Server managed multicast and multi-unicast
- User licensing based on cameras and concurrent users reduces total cost of ownership



Integration

- Support for popular PTZ protocols
- Multi vendor IP cameras
- Multi vendor encoders and decoders
- Multi vendor intelligent Video Analytics

Video

- M-JPEG, MPEG-2, MPEG-4, H.263, H.264
- Resolution up to 4CIF @ 30 FPS
- Bandwidth managed from 9.6kbps – 8Mbps per channel
- Up to 64 channels per server
- Up to 512 servers per system

Playback and recording

- Camera tours
- Remote view via Web Client
- Instant playback
- Image Content Navigation (ICN)
- 2.5D Live Maps technology
- Single, multiple or synchronized channel playback simultaneously
- Normal x2, x4, x8, x16, reverse, frame by frame playback
- Manual, event and scheduled recording
- Instant replay
- Support of local recording at client workstation
- Intelligent search, location, time and date, camera, alarm, event VMD, bookmark
- Archiving to highly scalable off-the-shelf RAID storage
- Parallel server fail over for n+1 redundancy

User management

- Concurrent user based licensing reduces costs
- Robust Microsoft™ SQL based database
- User login, password and contact details
- User / group configurable profiles and access settings
- Customisable user password levels

Export

- Native format MFS video
- AVI export with integrated player
- Watermark verification on export video
- User reports

Display

- User configurable template - add logos etc.
- User configurable split screen modes
- Screen layouts with preconfigured connections
- User configurable 2.5D Live Maps
- User configurable soft monitor arrays
- Dual monitor support
- Simultaneous display of live and recorded video

Advanced alarm management

- Configurable alarm triggers
- User definable scheduled alarm rules
- Integration of 3rd party alarms via I/O feature

System reporting

- System log of integral self diagnostic alarm and event log
- User audit trail, login, logout, archive, export
- Advanced user reports with sorting and export features
- Automatic discovery of IP cameras and encoders
- Remote firmware upgrade for network

About Controlware

Controlware Communications Systems are leading specialist suppliers and value added distributors of IP CCTV surveillance solutions. This includes video transmission, management, recording, and video content analysis systems. With extensive experience in communications networking and delivery of IP CCTV solutions, technical expertise enables Controlware to not only supply products but also assist with design, integration, and support of advanced surveillance solutions. Having supplied thousands of IP CCTV systems through a worldwide network of key technology and channel partners Controlware is the supplier of choice for digital CCTV surveillance solutions, enhancing security while ensuring peace of mind.

The Controlware group has provided IT communications networking solutions since 1980. During this time Controlware has accumulated extensive experience in the design, delivery and maintenance of cost-effective IP networks. By also specializing in the integration of applications such as IT Security, Storage and Video Surveillance systems Controlware offers a range of turnkey solutions that can be uniquely customized to exact requirements. With expert local technical teams backed up by global Technical Assistance Centers Controlware ensures 24x7x365 coverage for customers from International offices in Europe, North America, and Australia.



Partner Address Details

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