![image](Cover image)

Yehans Surveillance
& Security Systems

Building Integration Systems
Your Platform for Customized security and safety management

Yehans Surveillance
& Security Systems

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The live view instantly appears on the phone, you get the notification, you swipe it and it launches and you can start viewing what's going on. The other thing that will enable you to do is to communicate to who ever is within the camera's field of view as long as they are within the vicinity of the camera then you can communicate with them.

So there are two things that is required for a proactive system. Firstly, the security cameras in that system needs to be VoIP enabled, meaning that each camera needs internal software that will enable it to initiate a phone call, to say your mobile phone, if a specific event or alarm trigger has been activated. A VoIP camera will also have microphone and speakers so that you can engage in two - way communication with anyone located near the camera using your mobile phone.

The second thing needed is software in the camera that can accurately detect human movement while ignoring other unimportant movements such as wind - blown trees, rain and so on. As a human moves into the camera's field of view it generates an alarm trigger.

This particular software is installed inside the camera. The camera can then respond to the alarm by sending an alarm notification to your mobile phone and from there you can instantly access the camera's live view and see if there is a potential problem.

A proactive system can be set up using just two out door cameras, one at the front and one at the rear yard. Which if equipped with the right technologies and set up correctly would protect most homes from unwanted intruders. The power of proactive system is that they put you in a position of being able to respond to a situation before it gets out of hand, before breaking into occurs or before vandalism occurs.

That is the beauty of proactive systems.

And that is a lot much better scenario than being able to positively identify somebody after the theft has occurred or after the damage had already been done. I am sure you will agree.

So proactive systems do require more advanced technologies so they are more expensive but the return on investment is invaluable. After detecting the movement the VoIP enabled camera announces a warning message while also initiating a phone call to a video monitoring centre.
The operator at the monitoring center who received the call notification also received instant access to the camera's live veiw.

This enables the operator to verify that there is infact an unwanted intruder in the car yard, the operator can then contact the local police can confirming they have a visual of a potential threat, then the police can immediately dispatch a patrol vehicle to the car yard within minutes and the perpetrator will then be apprehended. Most importantly the crime is prevented before it could occur. You can only get this kind of result with a proactive surveillance system.
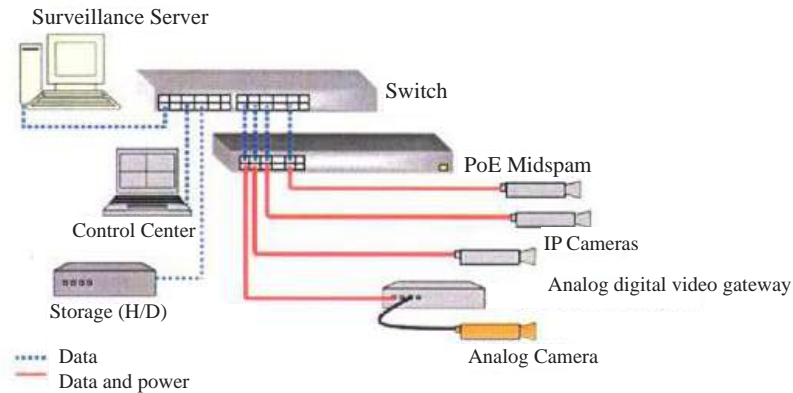
Our Unique Video Surveillance Architecture

Figure 3: Installing network video system using Power over Ethernet Midspan

Choosing The Right Surveillance Systen for your home
" Proactive " Vs. " Reactive" Systems

The first thing i advise home owners to consider when looking at a surveillance system for residential premises is to decide whether they want a reactive or a proactive system.

Now there is a huge difference between the two. A reactive system is one that simply records on events, so if the camera detects an event trigger such as a motion, a movement within the camera's field of view or if a door has been opened, if the system is hardwired to a front door then the cameras will start recording. Now most surveillance systems have that capability.

A proactive system is one that proactively contacts you if predefined events occurred during scheduled hours or 24/7 . So basically i'll give you an example of the scenario of how a proactive system works. Let's say you and the family pack your bags and are away for two weeks, no one is there looking after the premises. You can set up a proactive system to notify you as soon as let's say human activity is detected. So somebody enters, jumps the back fence and they are in the back garden, the system would instantly notify you to your mobile phone, as long as you have got a 3G or 4G connection.

One Platform For Everything
Efficient building management is becoming not only more important, but also a more complex challenge. Now adays organizations use multiple systems to monitor and control their buildings, ranging from fire and intrusion alarm to access control, video surveillance and building automation systems.

Efficient but simple

Monitoring, control, administration and maintenance of all these systems can be a huge challenge because individual systems only serve individual purposes. To Completely secure and manage a building, you need a number of functions - and if you want them all, they have to run alongside each other. This approach is not only inefficient, unreliable and expensive, but also difficult to upgrade when your requirements change.

A Single System- but still flexible

This is where the Building Integration System comes in. The idea is one solution that offers everything- combining different building management functions on one platform, and providing simple responses to difficult questions. But because every organization has unique building management requirements, the Building Integration System is modular. This means that, like with building blocks, you can add or remove single elements or create new combinations, which gives you maximum flexibility. This guarantees that you get the solution you need.
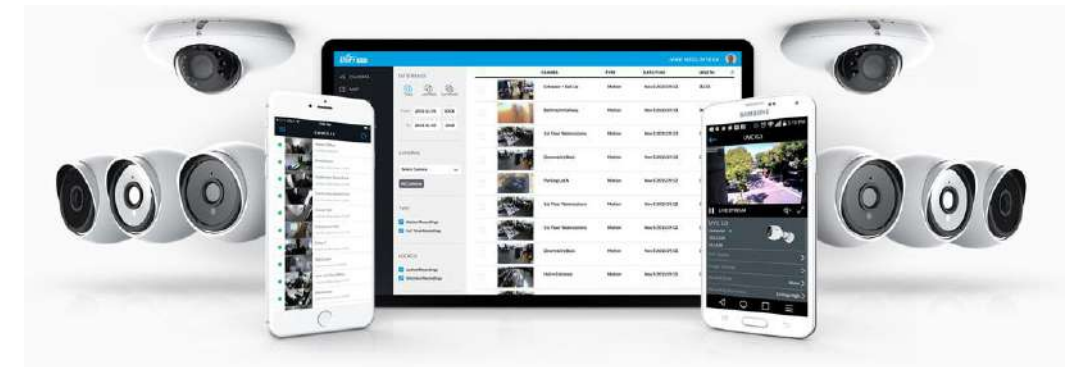
Automation Engine, Video Engine, Access Engine and Security Engine: Combined to create a high performance building manangement system.

Complete Solution for integrated building management

No Matter how comprehensive and complex your building management requirements are, the BIS responds flexibly and is also extremely easy to use. How does it work ? Easy . The Building Integration System (BIS), combines a number of technical systems: fire and intrusion alarm, video monitoring, access control and evacuation systems. All on one modular platform.

- ■ Fire detection Systems
- ■ Intrusion Systems
- ■ Video Surveillance Systems

- ■ Access Control Systems
- ■ Public Address/ Evacuation
- ■ HVAC, Lighting, Blinds IT Monitoring
- ■ Fence and Wall Monitoring

A Modular System For Greater Flexibility

To perform optimally, a Building Management System must suit your particular needs. But even more important: a good system should be able to cope with later changes. What you need today may turn out to be too little further down the road. And who wants to buy a whole new system just because the requirements have changed? This is why the Building Integration System is modular: different high-performance module (engines) share a single platform and can be flexibly combined.

Automation Engine:

Control and monitoring of intrusion and fire alarm systems, public address and any OPC - compliant third party device, such as building automation.

Video Engine:

Video monitoring using third party Video systems.

Access Engine:

Access control using access control hardware.

Security Engine:

A combination of Special intrusion alarm systems with simple access control Functionality.

Access Control Systems
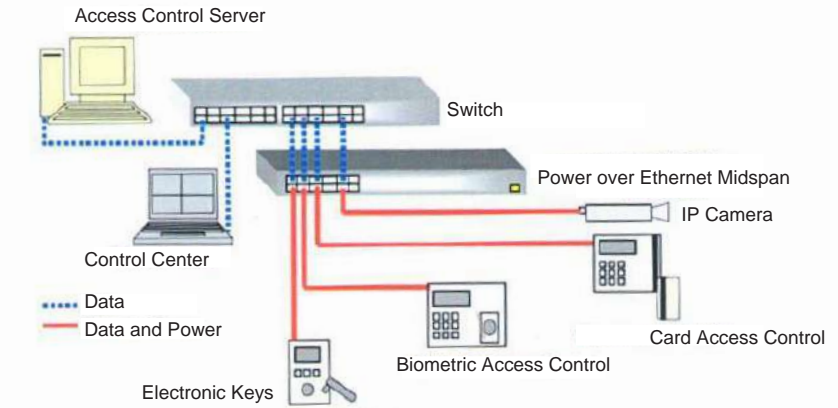**Our unique access control architecture**

Figure 4: LAN Based Access Control Architecture Using Power over Ethernet

Video Surveillance (CCTV)

IR Beams

Motion Detectors

Laser perimeter protection.

Typical application for the Building Integration Systems

- Fire monitoring and alarms, with evacuation management including control of escape routes and announcement

- Intrusion detection and alarms, with live video surveillance and analysis of archived footage.

- Video monitoring with video - motion detection and central AutoDome control

- Access control for normal and high- security areas

- Parking lot management

- Door management with intercom, video monitoring and access control

- Elevator control with management of floor access privileges

- Perimeter fence or wall monitoring with Video surveillance

- Guard tour systems with corresponding alarm functionality

- Failure monitoring for vital systems and equipment

- Light and blind control in connection with access control

Building management with maximum benefits
An optimal overview for maximum safety

It's only possible to protect something you can see. That's why the Building Integration System offers a complete overview of your organization with all subsystems, right down to showing the status of individual detectors. This is a major prerequisite for promptly and appropriately responding to dangerous situations.

Open standards for no-problem cooperation

The Building Integration System works exclusively with tested open global IT standards such as OPC, SML, HTML & Windows - which makes it easy to integrate both third-party security and building management systems. This results in numerous synergies and optimal service. It doesn't require much to train future users.Your return on previous investments is extended and your future options remain open.

Plus, you have a security management system that is not only extraordinarily efficient but is also compatible with existing structures down to the last detail.

Intelligent alarm management for appropriate reactions

In the event of danger, the system displays alarm based on location maps and other alarm documentation. Animated detector symbols and audible signals immediately indicate the source of the alarm. You can also define escalation scenarios to ensure immediate and appropriate responses.

Control

Automation Systems

Alarm System

Light Controls
Lightning Stryker

Remote Temperature Controllers

Wall Module

IP Network Video Recording Digital Video Manager

Access Control

Easy data integration for increased efficiency

Preexisting CAD data can be integrated without having to convert split diagrams. Subsystem configurations as well as personnel data from an HR or time management system can be directly imported-there's no need to reenter them in the Building Integration System.

And because the system is OPC- compliant it interfaces with a range of standard field buses such as EIB, LON, Profibus and BACnet.

Seamless documentation for retrospective Security

All events and operator activities are securely recorded in a logbook that prevents after-the-fact-changes.

This protects data from manipulation. The logbook is both easy to use and flexible, due to advance filter functions and the ability to export data in standard CSV format.

The Building Intergration System In Practice

The Building Integration System offers a suitable solution for every requirement and is correspondingly versatile. The examples here are only some of the areas in which the system is now being used with success:

Commercial applications:

- Banks
- Exhibition halls and Conference centre
- Medical Complexes
- Shopping mall and retail chains

Industrial applications:

- Automotive industry
- Chemical Industry
- Diamond Industry
- Factories
- Stores

Government and public institutions:

- Law enforcement facilities and penal institutions
- Government offices
- Museums
- University Campuses
- Military Sites

Transportation and logistics:

- Airport
- Train Station
- Warehouses and shipping Facilities

The Security Engine

Security management for D6100/6600 alarm receivers D7xxx/9xxx G intrusion panels

The security engine was specially developed for managing D6100/6600 alarm receivers and D7xxx/9xxx-G intrusion alarm panels, which are popular in the U.S. and some European and Asian markets.

For example, the alarm receivers connect intrusion panels from widely dispersed branch offices to a single central monitoring station over a telephone line providing you with an overview of any signs of intrusion.

User-friendly alarm management

When integrated into the Building Integration System, the Security Engine uses the entire range of alarm management and video functions.

Individual requirements met

D9xxx G panels in particular supplement their intrusion alarm technology with special control and monitoring functionality. The Security Engine manages user privileges for these functions. The Security Engine offer corresponding user administration for these functions

The Automation Engine

The efficient tool for comprehensive property security and monitoring of building automation systems

The larger the property, the more complex the monitoring and control operations become. Simple building management systems are therefore essential for efficiently organising these tasks. The Automation Engine enables central managements of both **Yehans** and third-party fire and intrusion systems, all on one platform. In addition, this module monitors automation systems for failure and can override IT networks. Location maps and alarm documentation provide detailed information and action plans. And user - friendly operation translates into immediate and effective alarm management.

Act faster, help sooner

When it really matters, every second counts. With the Automation Engine the operator knows immediately what to do because all the required information is provided in real time. The corresponding alarm documentation is centrally stored and precisely tailored for it's intended purpose, also including work cycles and location plans with animated alarm symbols. For even greater efficiency, certain alarms or events can be assigned to specific user groups, thus enabling the system to manage 5,000 different events concurrently.

The Video Engine

The platform for perfect integration of video systems with access control and intrusion alarm systems

Nobody has eyes in the back of their heads. Nor is it necessary: that's what the Video Engine is for - delivering a whole new dimension of performance as the central component for integrating and visualizing different video systems on one platform.

From Analog to digital

Analog matrix switches, traditional PC-based Video recording systems or new IP video technologies - the Video Engines supports the entire **Yehans** video portfolio. The consistent use of open standards makes it readily compatible with third-party systems. This is not only practical, but also good for your budget.

Room for privacy

Even the basic version of the Video Engine lets you hide user-defined zones within a public area monitored by camera. In many cases, this eliminates the need to buy expensive special purpose cameras.

Added value through Integration

The Video Engine is versatile and easy to combine with other security systems-an advantage that generate numerous synergies: the Video Engine turns standard cameras into motion detectors with an alarm function. In addition, combining it with intrusion alarm systems (Automation Engine) or access control systems (Access Engine) opens up a whole range of possibilities for improved alarm management. Video verification of access attempts or analysis of archived material are just two examples of the possible applications.

Combination of the Automation Engine with the Video Engine

The system uses infrared to detect an intruder. An alarm is signalled on the security personnel's screen. Video can then be used to verify the alarm, permitting immediate action if required.

The Access Engine

Fully integrated access control Management ranging from standard use to the most demanding individualized security solutions

It isn't appropriate to allow every employee to access all parts of a site, so an efficient access control system is indispensable in many buildings and organizations. The Access Engine has been specifically developed to satisfy even the most demanding expectations. It's modularity lets you systematically build the right solution to meet all your access control needs and flexibly scale it up as they grow.

User - friendly door management

In addition to simple access control management, the Access Engine provides user- friendly control of doors and barriers-with a clear overview on the user display that can be combined with Video footage and intercom.

Meeting the most demanding requests

The Access Engine satisfies the most demanding security needs. A few examples:

- Visitor management
- Forced guidance along certain routes
- Control of singling systems such as turnstiles and weight sensors
- Antipassback feature
- Guard tour module

Having an overveiw enhances security

The door to data centre has been open too long, or an employee is being threatened at the rear entrance to the building. Both scenario require immediate action. When integrated into the Building Integration System, the Access Engine immediately displays such events together with the appropriate action plan. This permits your personnel to respond without delay.

The Access Engine for arming and disarming intrution detection systems:

To enter the premises, a person holds a card against the reader. Following successful verification, access is granted. After the Card has been verified by the reader in the lift, the system determines that the person is only authorized to enter the fourth floor and consequently only permits that selection. Once they arrive and enter an area for which they are authorized, the security system there is disarmed.