



Introduction

- ▶ Alpha Technologies is an outcome of an aim seen by us who started their journey recently as a small unit. With constant learning process, we are progressing gradually to increase our services. We will be continually increasing our volumes, which we will be able to successfully process with the required quality and turnaround time thereby gradually increasing our client base. Now we have an esteemed small in our client base. We are looking forward to processing turnover more than 1 Crore. At Alpha Technologies the latest technologies are constantly integrated into processes and creative ways of disseminate knowledge are always being explored.

- ▶ With over 15 years of experience, in the domain of IBMS. Alpha Technologies now has a team of energetic, dynamic, competent and qualified professionals having rich experience, practically involved in offering niche services as required or a comprehensive package that frees the client to focus on other issue. As a complete business solution provider, we are mainly focused on providing high quality services that attracts business and binds them together.

- ▶ **IBMS (Integrated Building Management System)**



Company Profile

- ▶ Alpha Technologies is a Contracting Company, the Company has expertise, experience & specialization in complete Building Automation System, Installations and Industrial Security Solution Systems. We have acquired specialization in various projects in the past with high quality technical perfection.

- ▶ The jobs executed by us involve not only Building Management System, Fire Alarm System, Public Address System, Close Circuit TV (CCTV), Access Control System, Building Intercom Systems, Door Locking for Hotels etc, Rodent Repellent, Water Leak Detection & VESDA, and many more, but we also serve our Clients with Operation, Maintenance & Repairing of all the Systems under Annual Maintenance Contract (AMC).



Company Profile

- ▶ Our experience in working with other relevant disciplines in E-Security Solutions Services shall always be an advantage to all our Clients. We shall be glad to work with your organization for below given services:
 - Projects & Commissioning
 - Materials & Products , Supply & Services
 - Comprehensive Maintenance
 - Non-Comprehensive Maintenance Add-on Projects



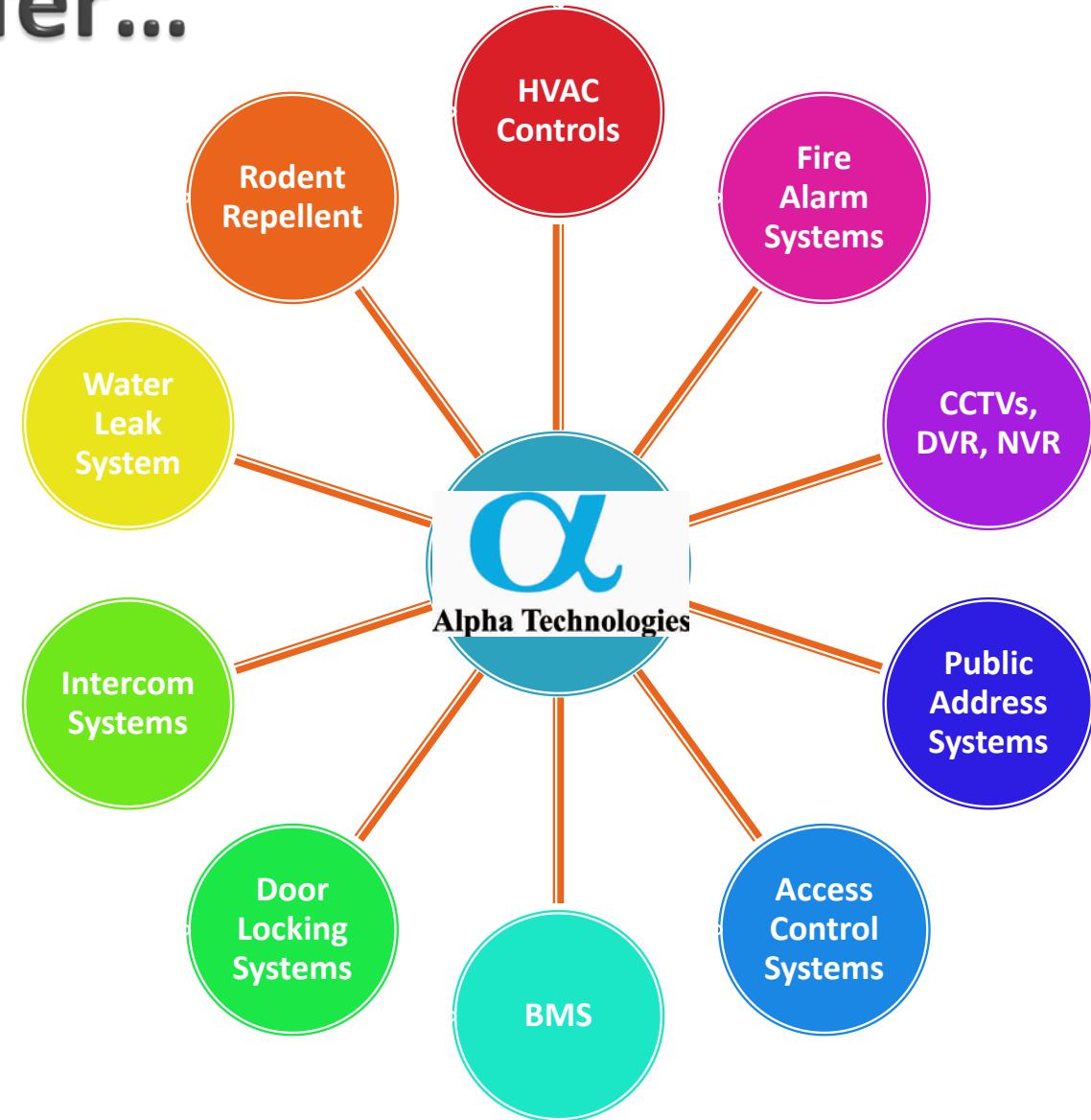
Vision & Mission

- ▶ Our vision is to be India's premier Service Provider of integrated IBMS, HVAC and Security Solutions.

- ▶ Our mission is to continue to provide an exemplary level of service and technical support to our customers, follow an aggressive sales and marketing approach and a systematic geographic expansion strategy, introduce latest technologies and supplementary product lines to our distribution portfolio and sustain long term relationships with our Customers.



What we offer...



Our Service & Support

- ▶ Project Execution, Testing & Pre Commissioning
- ▶ Annual Maintenance Contract
- ▶ After Sales Service
- ▶ Add-on Projects
- ▶ Manpower Supply
(Engineers, Operators, Technicians, Assistant Technicians)
- ▶ Traders in all E-Security and Automation Solution Products



Sales

- ▶ We are now dealing in Direct Sales, Designing, Product selection, Installation & Commissioning at budgetary rates. The main products offered by us are as follows:-
 - CCTV, ACCESS, INTRUDER, FIRE ALARM S/M
 - DOOR AUTOMATION, INTRUDER
- ▶ And many more as per client requirement.
- ▶ Customer Satisfaction is our primary motto in terms of Quality, Quantity & Cost Effective solution. Our experienced team takes care of the best possible value proposition.
- ▶ We are capable of taking Turnkey projects through our experienced technical & project team.



Sales (2)

- ▶ We provide not just the security products – but the security solutions. Our team will be in touch with customer till the project execution, commissioning & certification stage. Our products will also help you to gain your business.
- ▶ Sales team will take the responsibilities for following things:
 - Wide Product Range
 - Solution Design
 - Economical Offering
 - Commissioning
 - Training
 - New Business Opportunities



We execute

► Building Management System in the following Segments:-

- Building Intercom system
- Hotel Door Locking Systems
- Fire Alarm System
- Public Address System
- Access Control System
- Close Circuit Television System
- Water Leak Detection System
- Rodent System



Fire Detection, Alarming & Suppression System

- ▶ Alpha Technologies being one of the leading System Integrators has is in the process of tying up with several OEMs for Fire Detection, Alarming and Suppression Systems
- ▶ Our prominent solutions for Fire Detection & Alarm Systems are:



- ▶ All Fire Alarm System Solutions are World class UL Listed products
- ▶ All Fire Alarm Systems provide a varying and flexible Solutions ranging from Single loop panels to highly networkable over various protocols muti-loop panel.
- ▶ Solutions available for Industrial grade, explosion proof, hazardous location Fire Alarm Control Panels as well.

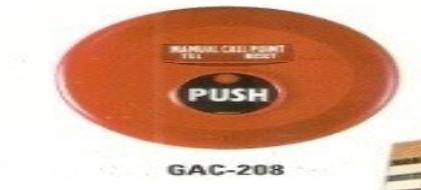
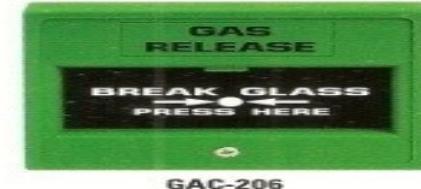


PRODUCTS PORTFOLIO



Various Types of MCP, Hooters, etc.

World Class Range of Call Points/Hooters/Hooter cum Strobe



Total Security Solution "Any time Any Where"

Fire Alarm Products



NOTIFIER®
by Honeywell



FSP-851 Series Smoke
Detectors



FSP-851 Series Heat Detectors



FSL-751 VIEW® Laser
Detectors

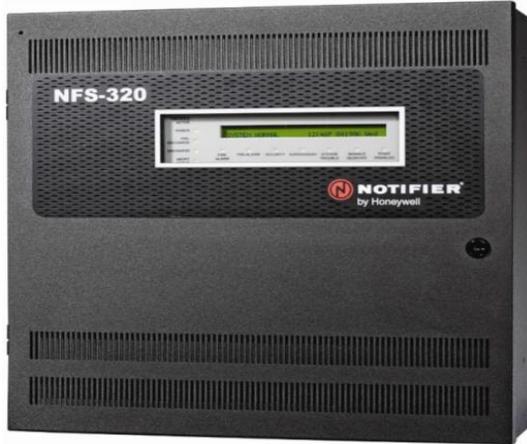


FAPT-851(A) Acclimate®
Plus™ detectors



Fire Alarm Products

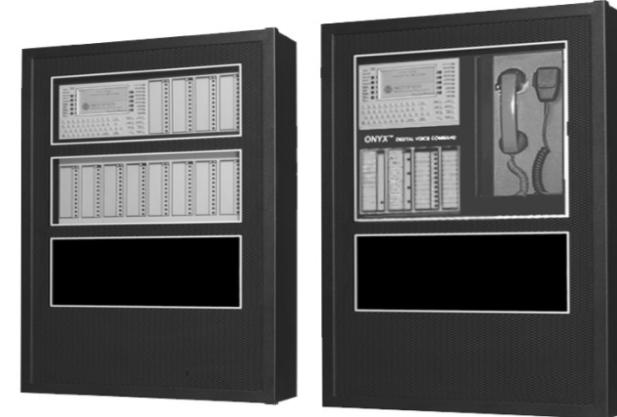
 **NOTIFIER®**
by Honeywell



Addressable Fire Alarm Control
Panels - NFS-320E



Addressable Fire Alarm Control
Panels - NFS-320E



Addressable Fire Alarm Control
Panels: - NFS2-3030E with DVC



Fire Alarm Products



NOTIFIER®
by Honeywell



FCM-1(A) Addressable Control Modules



FTM-1 Addressable Firephone Control Modules



FMM-1 Monitor Modules



Fire Alarm Products

MORLEY  **IAS**
FIRE SYSTEMS
by Honeywell



Addressable Manual Pull Stations:- NBG-12LX



**Manual Call Points:-
NFX/MCP/GLASS**



Manual Call Points:- MI-MCP-FLEX



Photoelectric Smoke Detectors



Intelligent AV Warning Devices



Fire Alarm Products



Photoelectric Smoke Detectors:-
2351E



**Rate of Rise & Fixed
Temperature Thermal
Detectors:- 5351E**



**Multi Criteria Photoelectric
Smoke/Thermal Detectors:-
2351TEM**



Horns, Strobes, and Horn Strobes:-
MHR1, SYS-ST & SYS- HS



**Waterflow Detectors:- WFD-20 to
WFD-80**



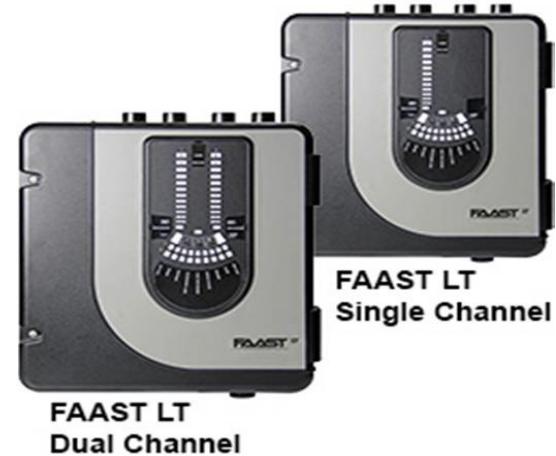
Fire Alarm Products



Beam Smoke Detectors:-
BEAM1224 (S)



Fire Alarm Aspiration
Systems:- **FAAST- 8100**



FAAST LT
Dual Channel

Fire Alarm Aspiration Systems:-
FAAST LT- FL0111E & FL0122E



Fire Alarm Aspiration
Systems:- **FAAST XT-
9400X**

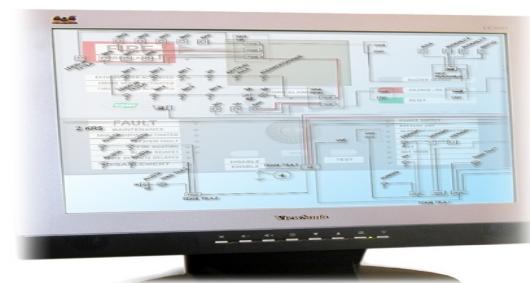
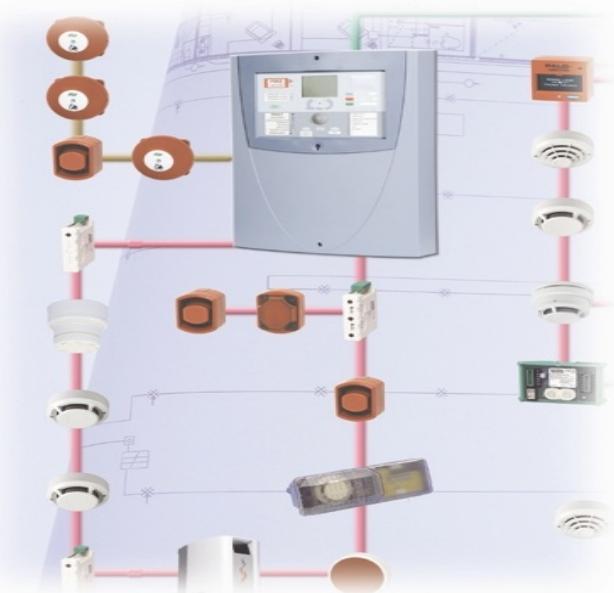


HVAC Electrical Control Panels



Fire Detection, Alarming & Suppression System

- ▶ Intelligent Fire Detection and Alarms Systems
- ▶ Intelligent Multi sensor technology detectors
- ▶ Manual Call Points
- ▶ Strobes and Sounders
- ▶ Repeater Panels
- ▶ Mimic Panels
- ▶ Annunciation Systems
- ▶ Relay Modules
- ▶ Control Modules
- ▶ Monitor Modules



Fire Detection, Alarming & Suppression System

QuickStart



EST
EDWARDS SYSTEMS TECHNOLOGY™



GST



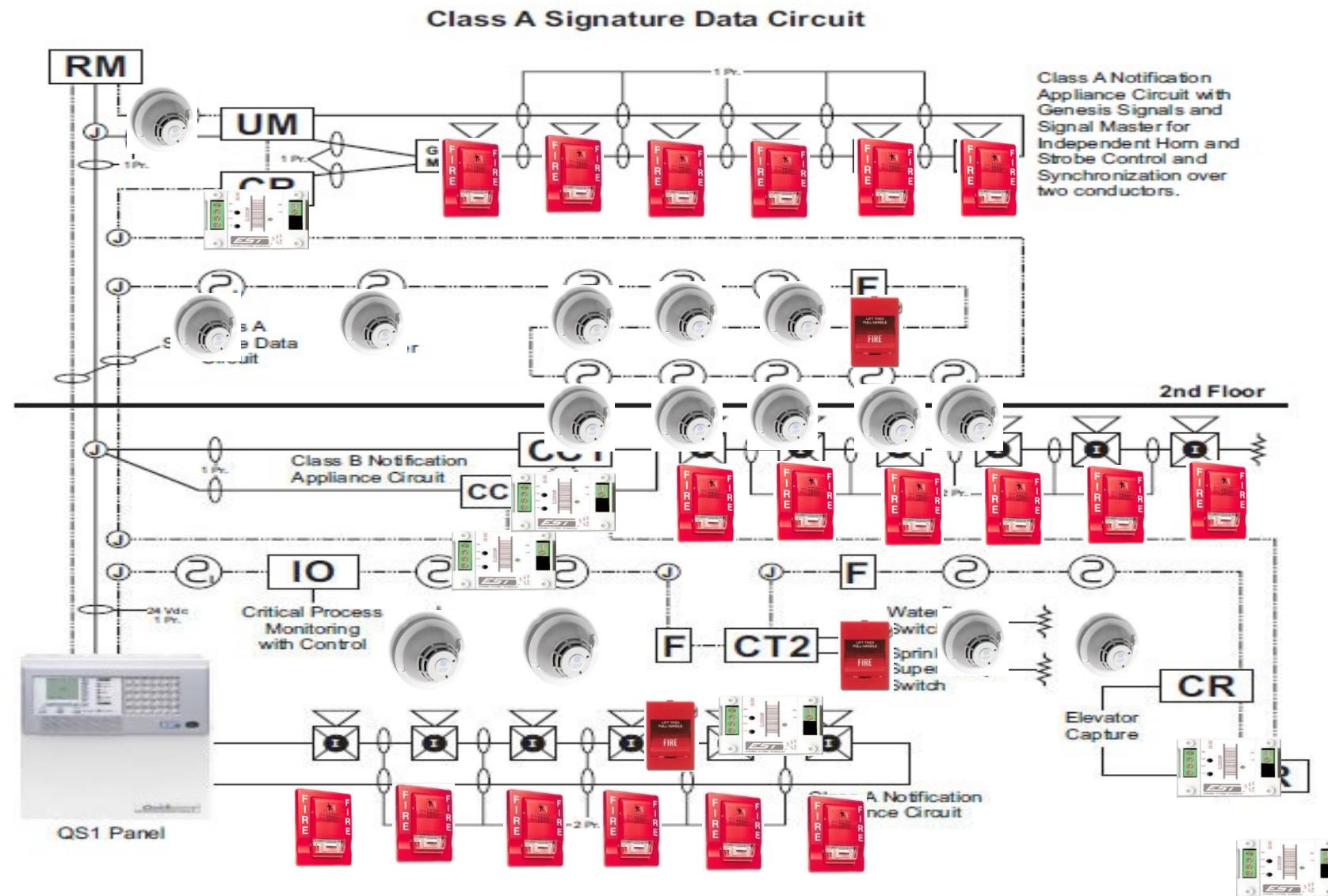
COOPER



Simplex



Typical Architecture of a Fire Alarm System



Fire Detection, Alarming & Suppression System

- ▶ For Gas based Fire Suppression System, we can propose the following Systems

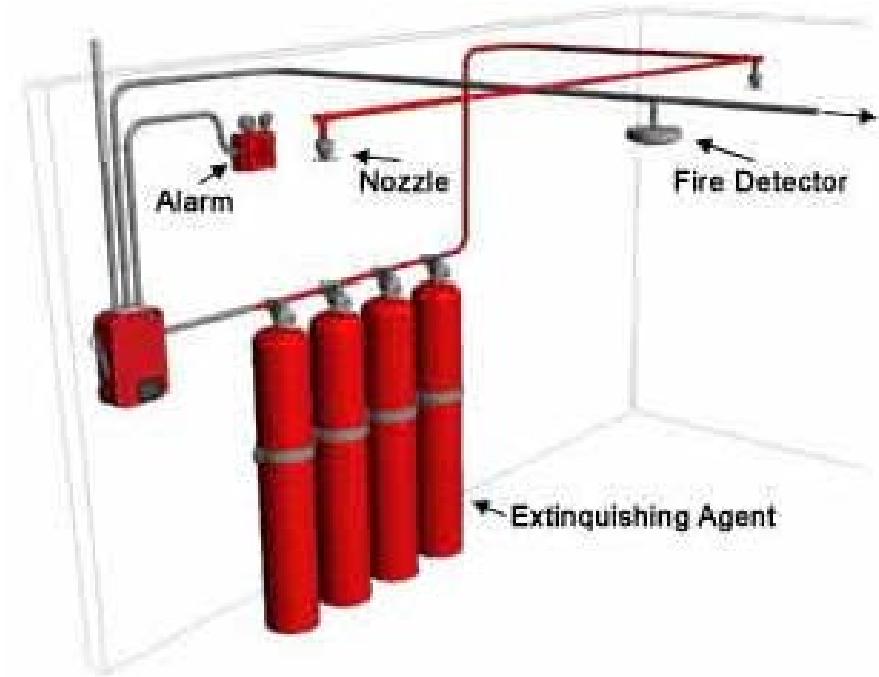
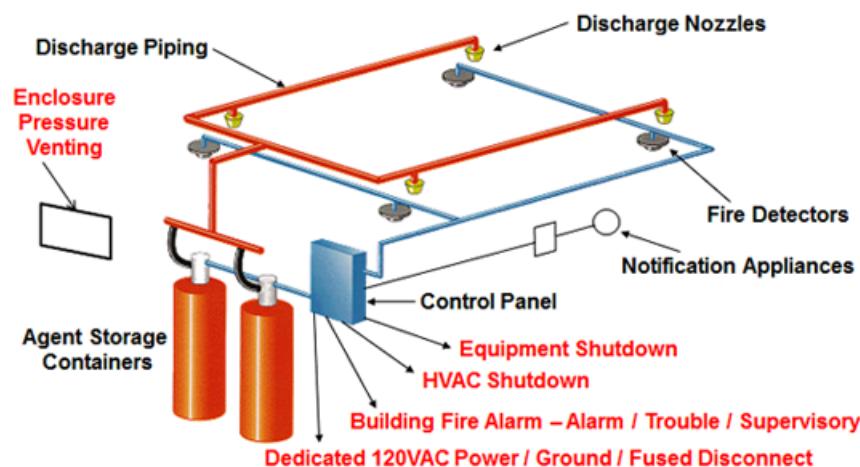


- ▶ NOVEC 1230 is the agent used
- ▶ NOVEC 1230 manufactured by 3M is a greener gas than the earlier used agents like FM200 since it doesn't deplete the ozone
- ▶ NOVEC 1230 compliant to all international standards such as NFPA, ASTM, FM, UL, ULc, DTI-Ozone Regulation, World Bank –Climate change.



Fire Detection, Alarming & Suppression System

- ▶ Typical Layout
- ▶ Integrated with the Building Fire Alarm Control panel or a standalone Control Panel



- ▶ Various Features like Cross Zoning, Timer for delay, Pre Alarm delay

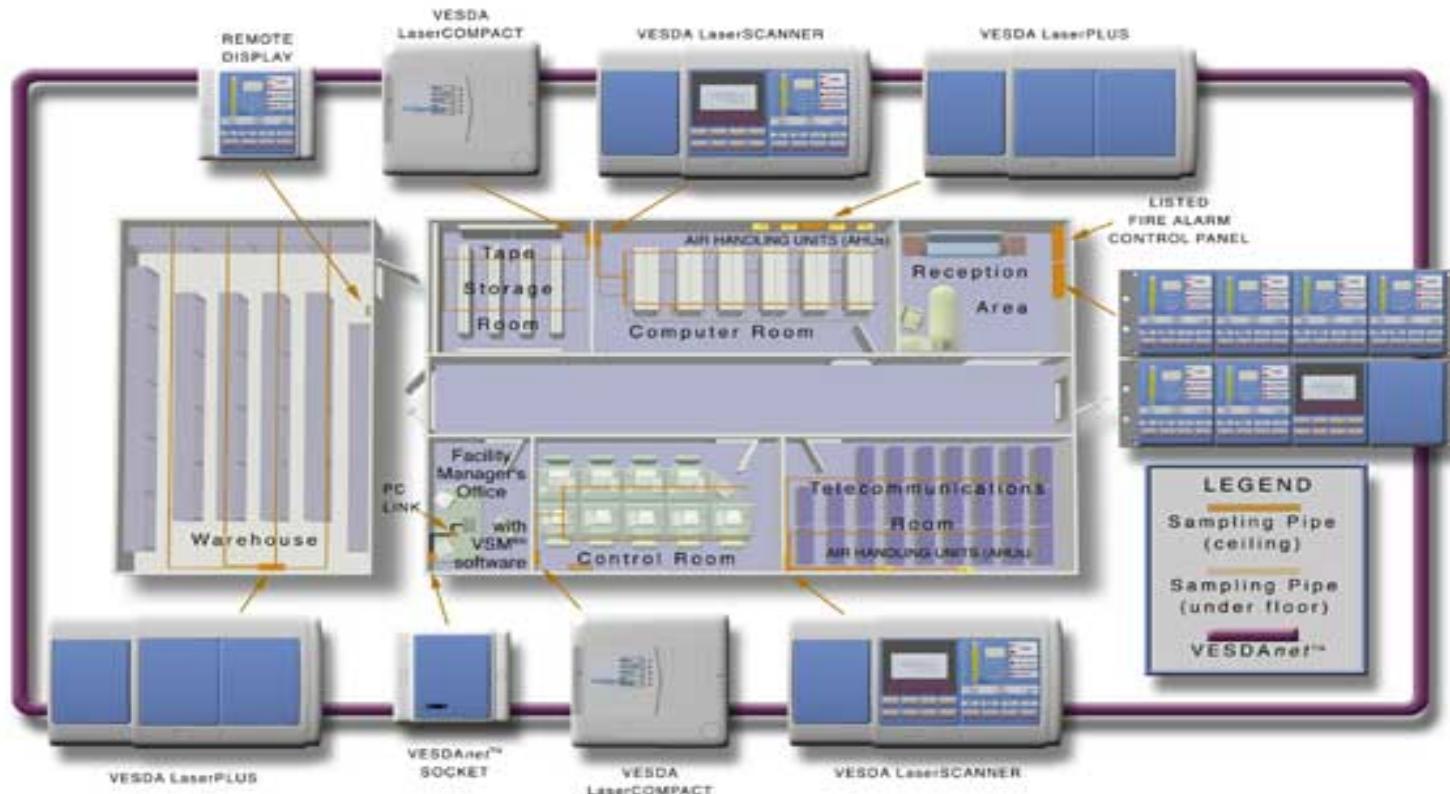


Very Early Smoke Detection Apparatus - VESDA -

- ▶ Aspiration type smoke detection System, consists of a central detection unit which draws air through a network of pipes to detect smoke earlier than the human eye
- ▶ Uses sampling pipe with multiple holes
- ▶ Sampling of the air is done through laser technique to detect smoke.
- ▶ 100 times more sensitive than a conventional fire alarm system
- ▶ Contacts available within VESDA panel to integrate them with BMS or any third part
- ▶ system like BMS, ACS etc.

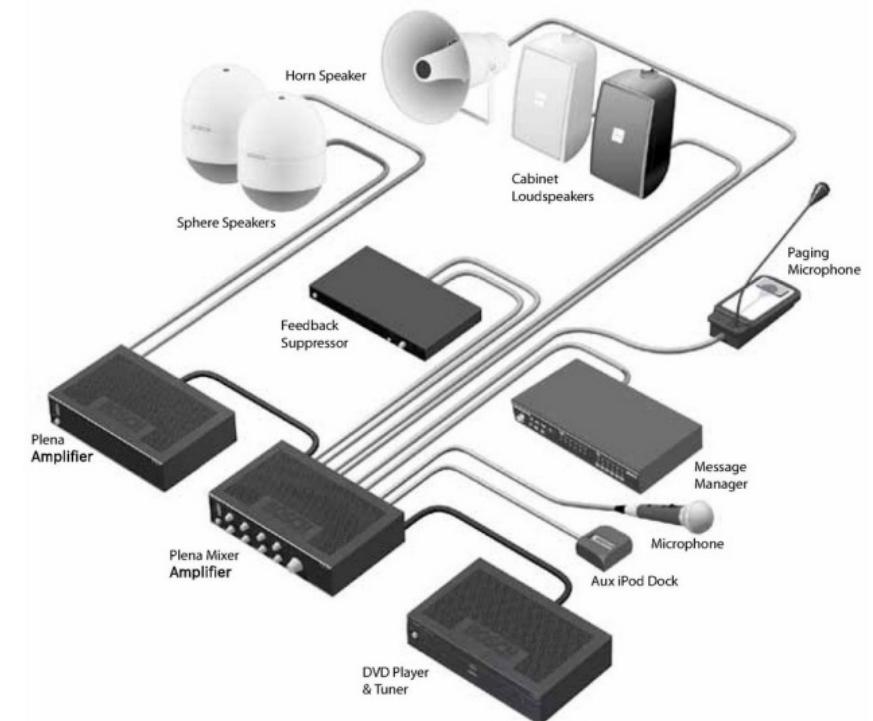


Very Early Smoke Detection Apparatus (VESDA System)



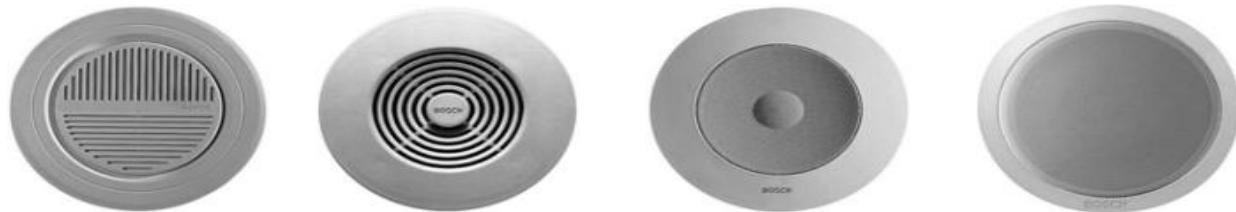
Public Address and Paging Systems

- ▶ Public Address System – **Bosch, Aties, Ahuja**
- ▶ Features
- ▶ High quality
- ▶ Ideal for small-to-midsized applications
- ▶ Easy expandability
- ▶ Easy to install and maintain
- ▶ Ideal for integration with Fire Alarm Systems for playing warning and evacuation messages.
- ▶ Offers facilities for background music, paging and playing pre-recorded commercials

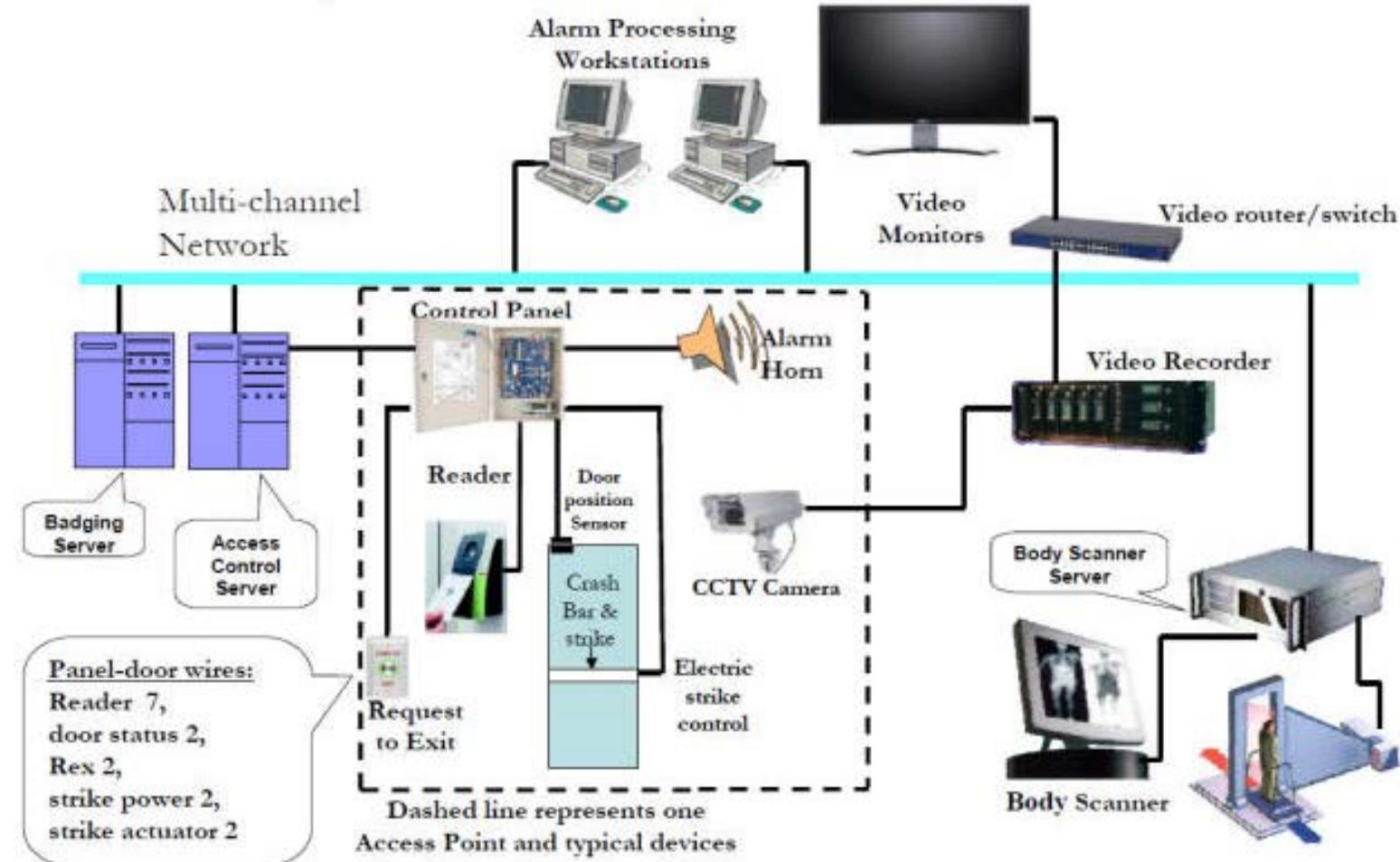


Public Address Systems

- ▶ Music and Messaging
- ▶ Message Broadcasting
- ▶ Zone Based Messaging
- ▶ Amplifiers
- ▶ Microphones
- ▶ Speakers
- ▶ Outdoor Speakers



System Architecture : Access Control System



Access Control System

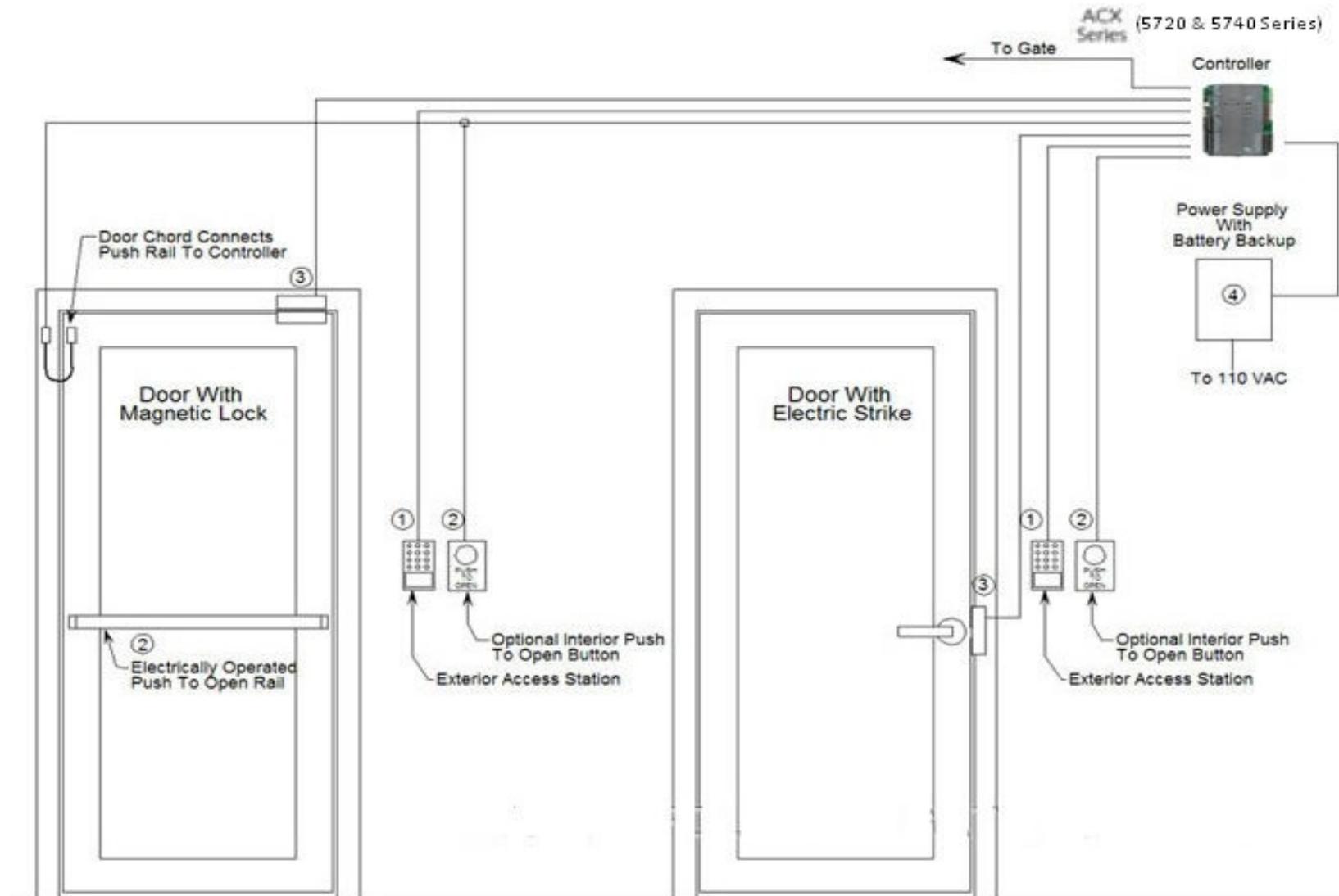
- ▶ Integrated access control , building automation and video Management systems
- ▶ Supports 225 tenants
- ▶ 24000 users per tenants
- ▶ 6120000 users Total users with Image verification
- ▶ First key Auto – Unlock
- ▶ Permanent and Temporary Schedules
- ▶ 204800 Door capacity
- ▶ Elevator Control
- ▶ Integrated Light Control
- ▶ Integrated Video badging
- ▶ 5,000,000 Online events
- ▶ Full anti – passback – Hard / Soft / Graced
- ▶ Configurable password protection
- ▶ Upto 1,638,400 I/O capacity
- ▶ Industry Standard SQL Database



Total Security Solution "Any time Any Where"



Access Control System : Door Schematic



Gate Automation System

- ▶ Tripod Turnstiles
- ▶ Half Height Turnstiles
- ▶ Automated Flap Barriers (Retractable)
- ▶ $\frac{3}{4}$ Height Turnstiles
- ▶ Full Height Turnstile
- ▶ Automated Boom Barriers
- ▶ Rising Bollards
- ▶ Under Car Scanners



CCTV System – Hikvision, Honeywell, Samsung, CP Plus, Dahua etc.

- ▶ Analogue CCTV Systems
- ▶ IP based CCTV Systems
- ▶ IP CCTV cameras
- ▶ Thermal Imaging Cameras
- ▶ Explosion Proof Cameras



IS110 SERIES DOME



IS90 SERIES DOME



C/CS Mount



High Zoom
PTZ Domes



High Zoom
PTZ



High Zoom
Ex - PTZ



Sarix-Based IX Series Cameras feature a modern, sophisticated design.

**Fixed
Domes**

Mini PTZ Domes

C/CS Mount

High Zoom
PTZ Domes

High Zoom
PTZ

High Zoom
Ex - PTZ

**Mega Pixel
Q 2 2009**



CCTV Mounting Bracket & Stands



Total Security Solution "Any time Any Where"



DVR & Network Storage System

- ▶ Hikvision provides all the latest compression technology like
- ▶ H.264, MPEG-4 and MJPEG

- ▶ All IP cameras are PoE enabled (IEEE 802.3af)
- ▶ All cameras have the following minimum ratings
- ▶ All IP cameras have auto back focus and built in Analytics
- ▶ High recording resolution of up to 30 ips
- ▶ Broad range of PTZ camera available from 10X optical zoom to 36X
- ▶ IP based Video Management System supports up to

- ▶ Real Time Recorder - 16 Analogue Input
- ▶ Real Time Recorder - 16 / 24 / 32 Analogue Input



Eco – Series DVR



Enterprise - DVR

- ▶ Hybrid DVRs – 16 channel DVR (Analogue or IP cameras)
- ▶ Hybrid DVRs – 32 channel DVR (Analogue or IP cameras)



Hybrid DVR – 32 Channel

Hybrid DVR – 16 Channel



- ▶ Linux Based CCTV systems
- ▶ Entire Range of IP CCTV solution
- ▶ Wide Range of IP solutions
- ▶ Built and Designed by Pelco
- ▶ UL listed Products



IS110 SERIES DOME



IP- PTZ
Dome



IP- Fixed
Dome

Encoders



System Manager



Network Video Recorder



Storage Solutions



Video Console Display



Workstation

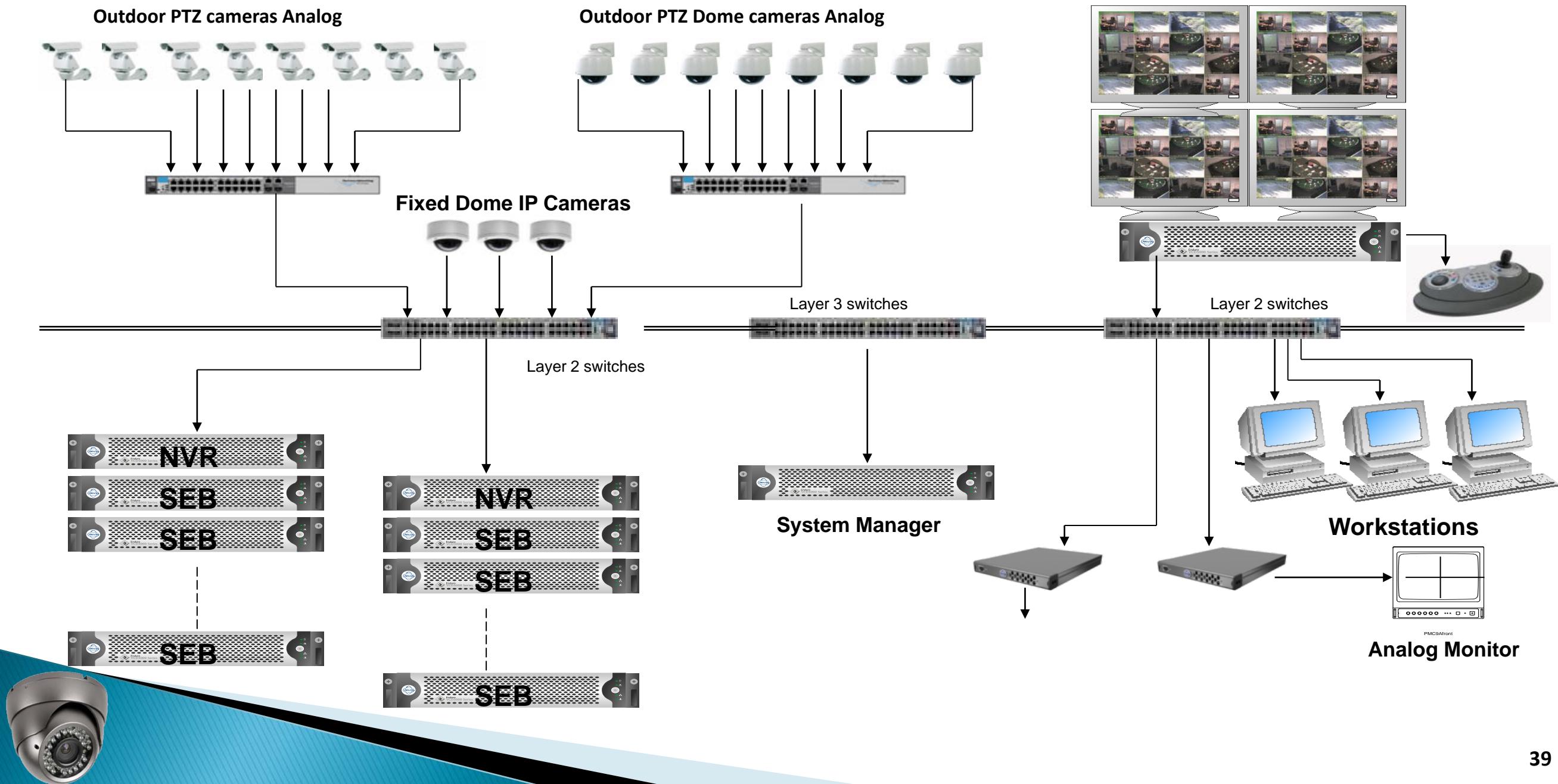


Keyboard

Range Of Analog & IP CCTV Cameras & DVRs



System Architecture – IP CCTV System



Closed Circuit Television System

Directional Motion

- ▶ Triggers an alarm when motion is detected in a specific direction.
- ▶ Users have wide flexibility in defining areas of interest and activity thresholds, to minimize false alarms.
- ▶ Ideal for parking, traffic settings, as well as an endless array of other security scenes.



Adaptive Motion

- ▶ Calibrates to scene conditions, allowing the system to distinguish targets from other movement in a scene
 - Headlight glare,
 - Leaves blowing,
- ▶ Ideal for outdoor applications, perimeter detection and parking lots,
- ▶ Reduces false alarms due to environmental conditions.



Closed Circuit Television System

Vibration Removal

- ▶ Reduces video shake in applications where cameras are subject to vibration.
- ▶ Ideal for cameras with long focal lengths & pole-mounted cameras.



Object Removal

- ▶ Allows the user to define an object or area of interest in a scene.
- ▶ Motion is allowed in the protected zone.
- ▶ An alarm triggers when a stationary object is removed from the scene.

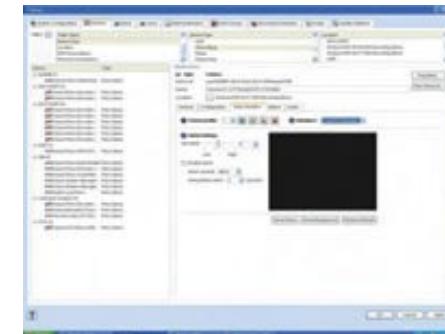


Closed Circuit Television System



Camera Sabotage

- ▶ Detects when video has been compromised;
- ▶ For example, a vandal covers a lens or moves a fixed camera away from an intended scene.



Object Counting

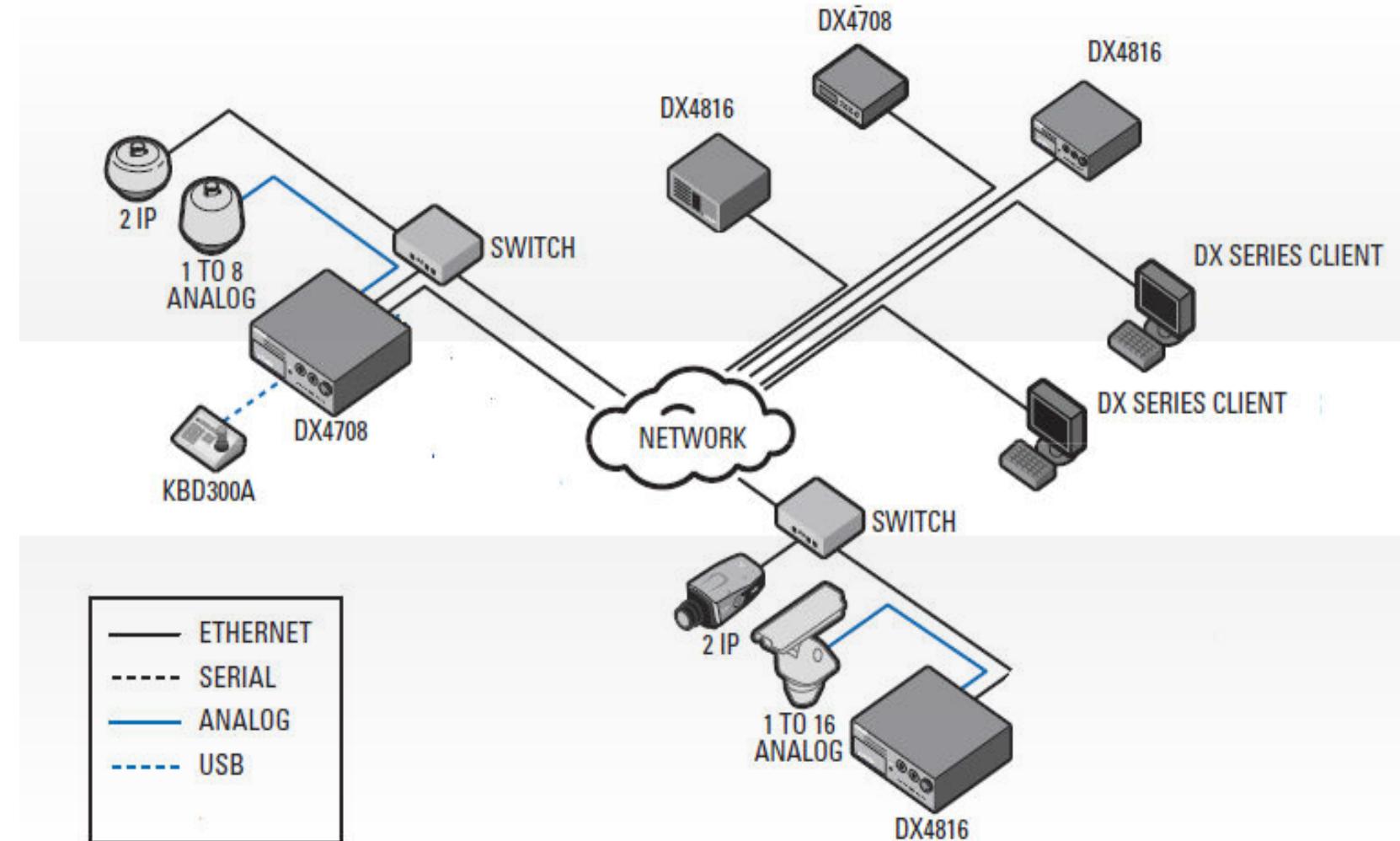
- ▶ Counts objects when motion detected in a specific direction.
- ▶ Users have wide flexibility in defining areas of interest and activity thresholds.
- ▶ An alarm is generated when the threshold is exceeded.

Abandoned Object

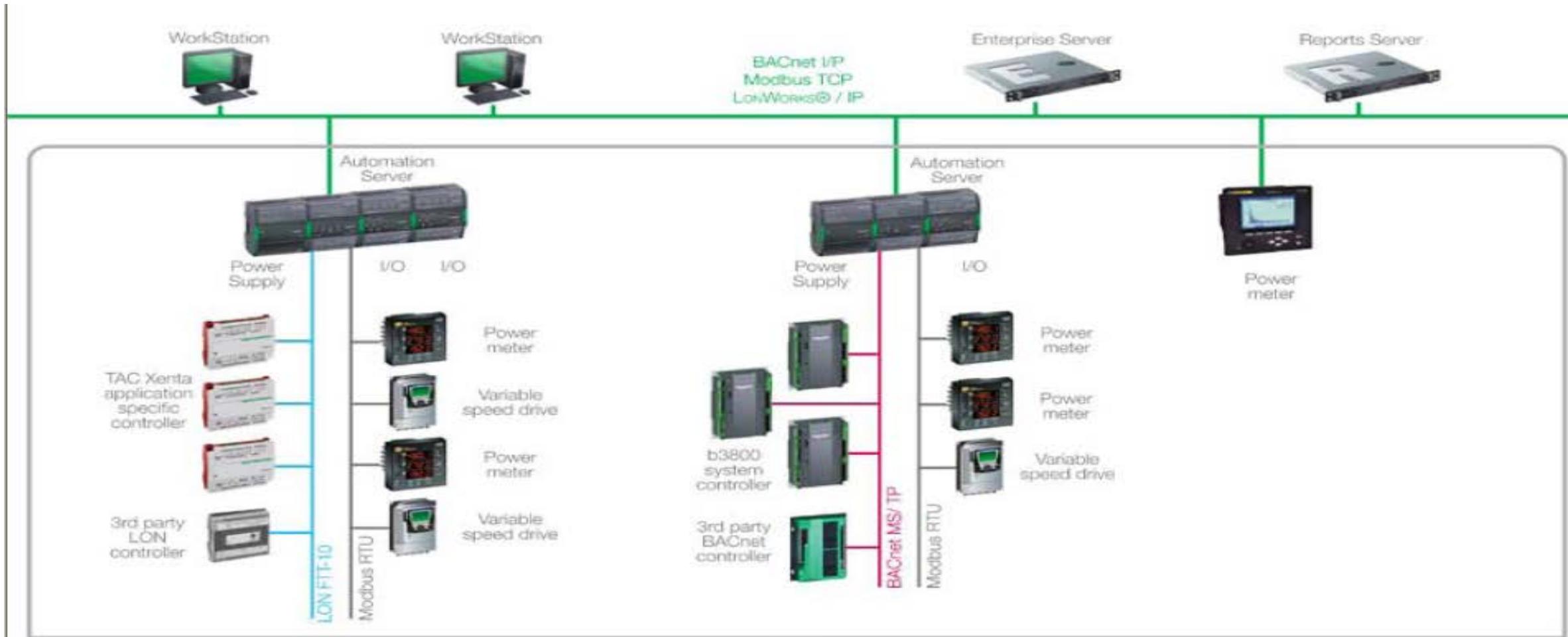
- ▶ Allows the user to define an object or area of interest in a scene. Motion is allowed in the protected zone.
- ▶ An alarm triggers when a stationary object is left in the scene.



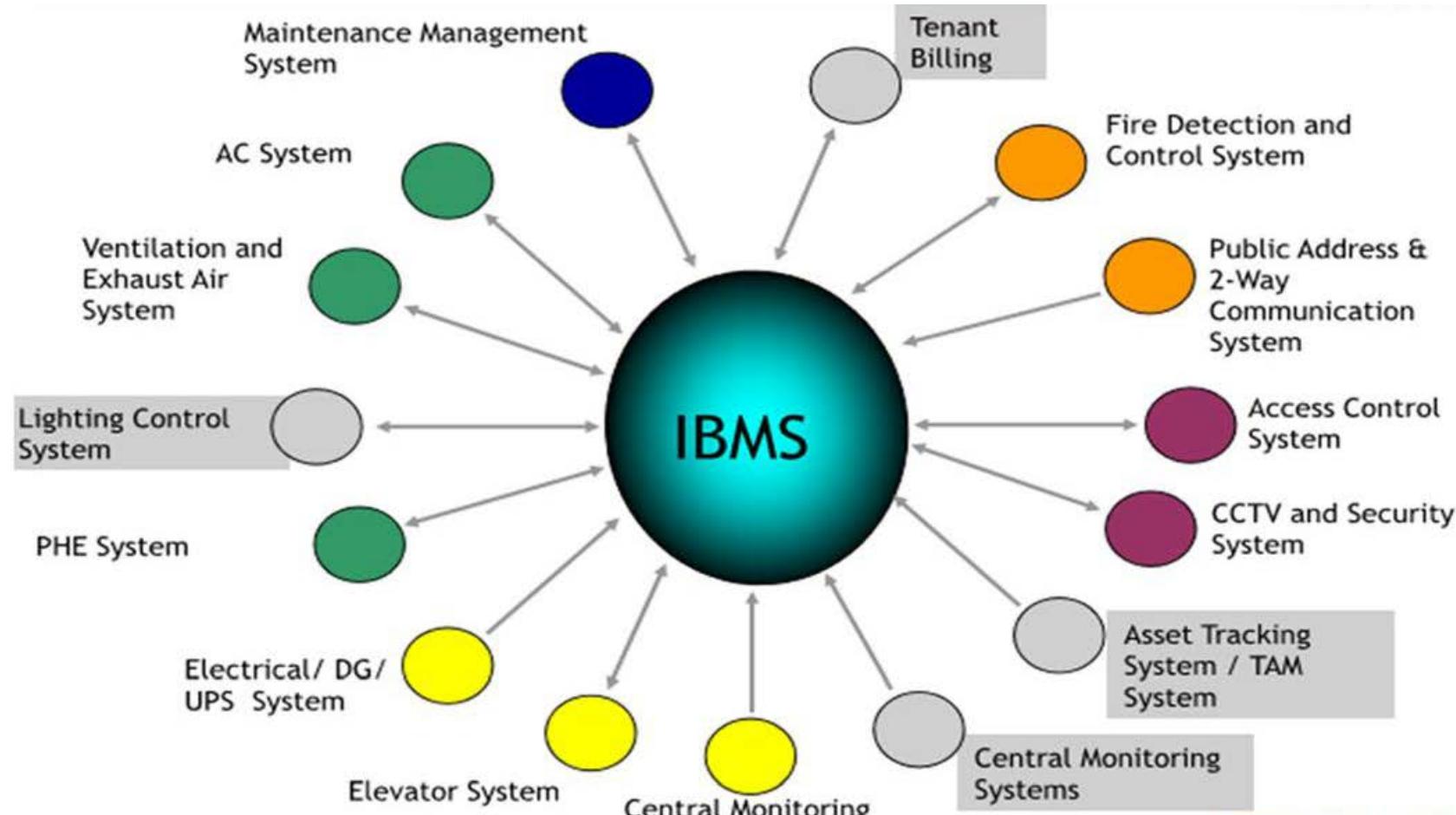
Typical Architecture of Analogue CCTV



BMS SYSTEM



Systems Controlled and Monitored by BMS



The BMS Controllers & Sensors Family



Power Supply



Automation Server



Range of I/O modules



Enterprise server



WorkStation



Range of sensors



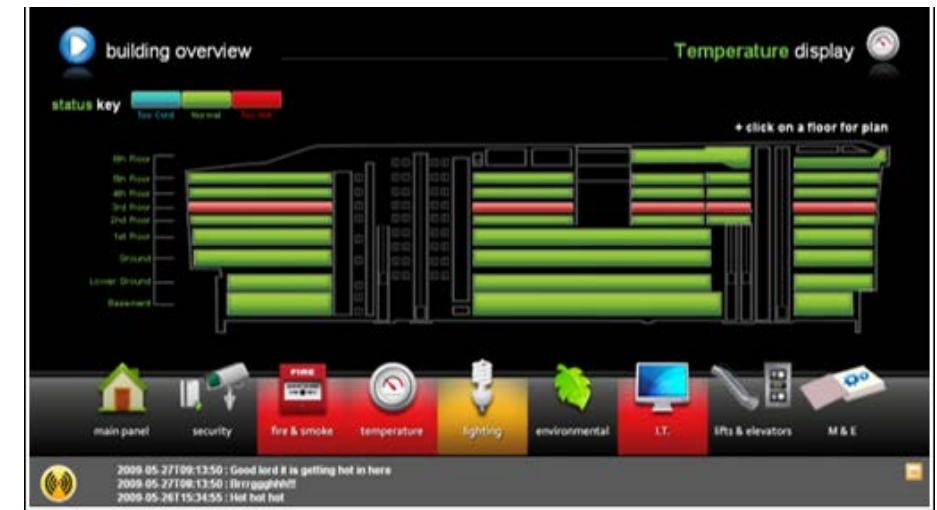
Key Features of BMS Controllers

- ▶ Easy to Install – Hot Swap / Plug & Play
- ▶ Easy step by step Migration.
- ▶ 4 GB Memory at controller level.
- ▶ 464 I/O points connectivity.
- ▶ Embedded Web Server.
- ▶ Can Manage multiple Servers at a time.
- ▶ Software in Host network can be linked with Windows Domain user Accounts which ensures policy adherence for all Stations in the facility.
- ▶ Archiving of all Alarm, Trend and event data provides large capacity of storage.
- ▶ 2 –piece Design: Patented Locking Handles
- ▶ Separate Wiring base with Auto Addressing .

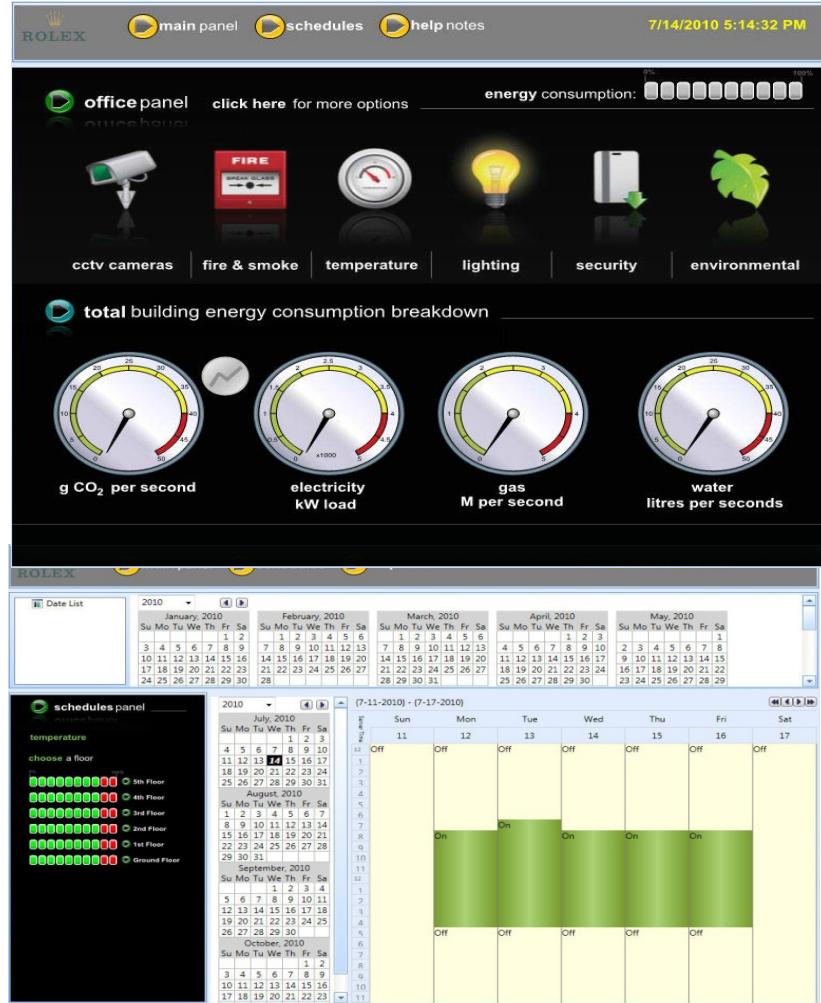


BMS Graphics

- ▶ Extensive Graphics Library enables you to create visually appealing schematics without the added expenses of Graphics design.
 - ▶ Create, Modify or update graphical elements quickly and easily
 - ▶ Intuitive Graphics can change color indicating temperature variation and alarm status



BMS Graphics



- ▶ Individualized view for each user
- ▶ Ability to see what is important to you
 - CEO
 - Facility manager
 - Security
- ▶ Preferences follow the user so they see their layout wherever they log in
- ▶ Set it up as one screen or several
- ▶ Most user-friendly BMS on the market today



Water Leak Detection System



Entry Level



BMS Direct Interface



4 / 8 Zone Control Panel



32 Zone Control Panel



Probes



Rodent Repellent System

Rodent Repellent system

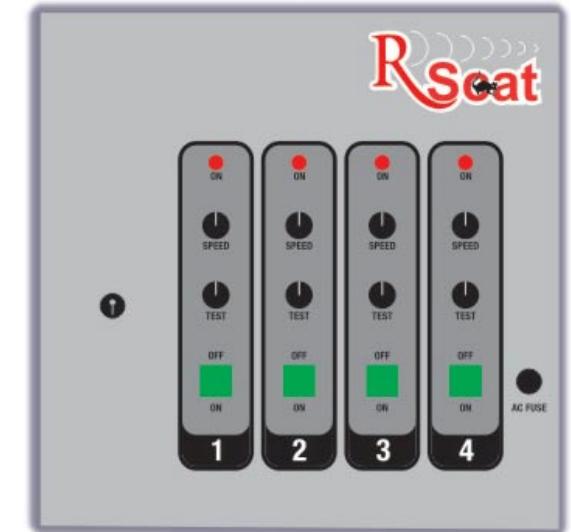
This system is placed in ceiling void, Raised floor void in Computer Room ,in Technical Room, Equipment Room, and Ceiling Void in office areas



Specification

Operating Frequency	: Above 20 KHz (variable)
Sound Output	: 80 dB to 110 dB (at 1m)
Power Output	: 250 mW per transducer
Power Consumption	: 40 W approximately
Power Supply	: 230 V AC 50 Hz
Dimensions	: 16" x 8" x 4"
Weight	: 5.5 kgs (approx.)
Mounting	: Wall / Table Mounting

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