Rax-Tech International

15+ Years

Alarm Automation Panels with CMMS
for Remote Facilities

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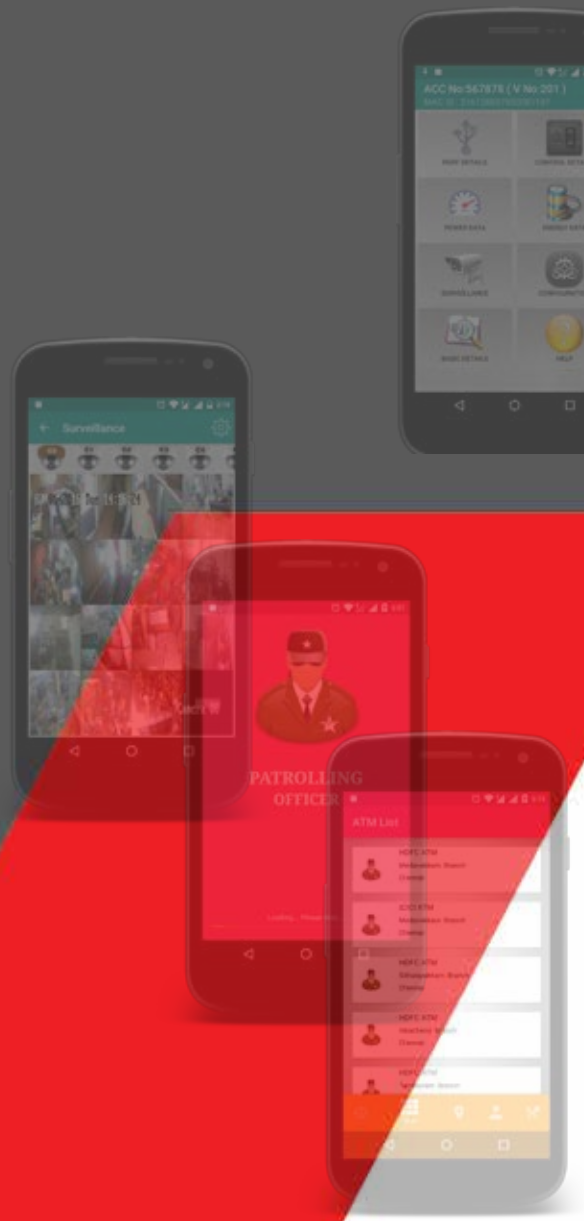

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INTRODUCTION

CMMS & AAP

Remote Facility monitoring and management is, need of today and tomorrow as number of decentralised facilities / infrastructures are increasing to cover up wider area. Also, the world is looking for reducing recurring cost by cutting down the manpower and energy.

Squadron Alarm Automation Panel (AAP) & Geo-Marshall Central Monitoring and Management system (CMMS) has been designed to cater these requirements. It's a solution in a box which handles all your requirements of Security, Safety, Surveillance, Automation and Power & Temperature monitoring needs for facilities in remote locations. Highly configurable and has the capability to communicate with any SIA based counterpart. It comes with separate Android apps for Deployment Agent and Patrolling officers.

APPLICATIONS

CMMS & AAP

- Bank/NBFC Branches & ATM Centers
- Mobile Towers
- Chain of
  - Stores / Shops / Supermarkets
  - Jewelleries
  - Distribution Warehouses
- Corporates with multiple branches
- Any remote facilities

ALARM AUTOMATION PANEL

Squadron™
Alarm Automation Panel

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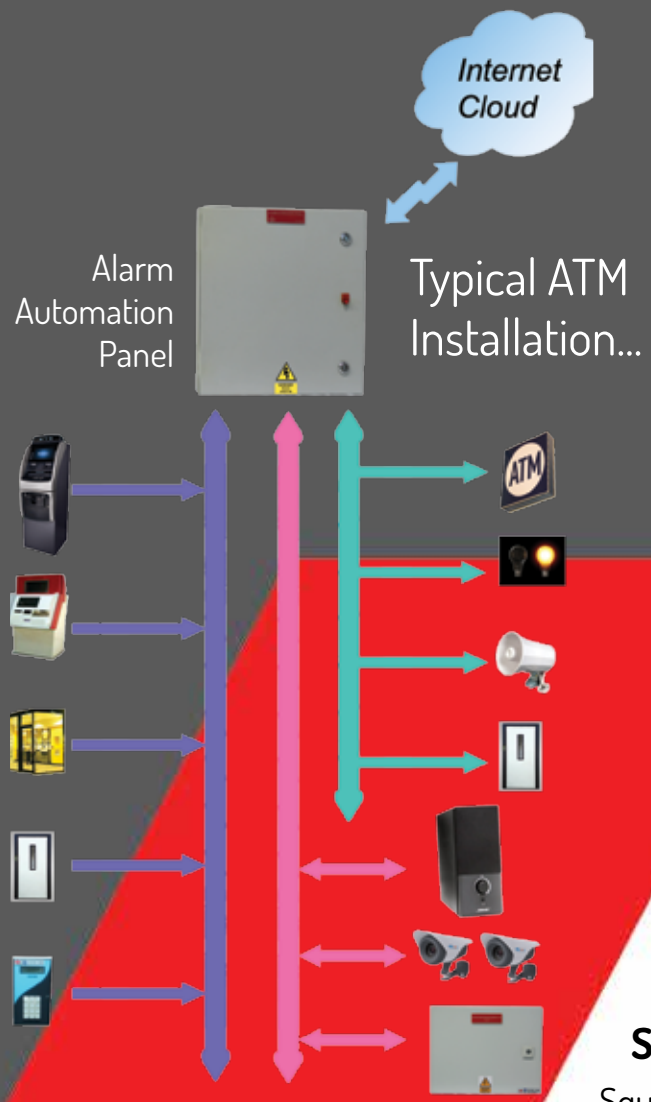
Alarm Automation Panel



Electronic Security

Squadron Alarm Automation Panel is placed in the remote location. Can be connected to multiple digital and analog sensors. Sensors can be placed in such a way that abnormal events are detected and so AAP creates alert and push to CMMS. AAP has dedicated I/O for Panic switch and Hooter.

Automation

Built-in relays in AAP can be connected directly to control any electrical circuits. High amps circuits can be controlled through Interposing Relay unit connected to AAP or through PMCU.

Surveillance

Squadron's rugged cabinet have enough space to accommodate DVR/NVR & VPN router within the box and it comes with built-in tamper alert sensor to prevent any unauthorised intervention.

Power Backup

Built-in 8 hours Power Backup, Power manager, monitoring EB voltage, UPS voltage and Battery Voltage. Prier alert on complete power failure.

Self Diagnosis

Squadron's watchdog keep monitoring status of all sensor & connectivity and reports to Geo-Marshall periodically.

ALARM AUTOMATION PANEL

Squadron™
Alarm Automation Panel

Access Control & Activity Management

Keypad connected to Squadron Alarm Automation Panel will enable us to arm/disarm group of sensors to carry out planned activities. These facilities required to be maintained periodically with various set of people starting from housekeeping to technical maintenance team. According to the nature of their activity Squadron can be configured to arm and disarm any sensor and control.

On entering the passcode given to them, Squadron takes action if defined else generates alert and sends to Geo-Marshall for Agent to take action. All options are parameterised and configurable to client's requirements.

ALARM AUTOMATION PANEL

Squadron™
Alarm Automation Panel

Energy

Light

Temperature

Environment Monitoring

Energy meter connecting to squadron allows us to monitor the power in use and will enable us to manage the usage of power and generate reports.

In most of the unmanned facilities irrespective of the natural light & weather conditions, lights and Air Conditions are kept ON. Squadron connecting to lux sensor and temperature sensor enable us to monitor and control lights and Air Conditioners depending on sensor's output.

We can opt for sensors only to monitor the environment and devices like lights and air conditioners can be scheduled to run periodically.

ALARM AUTOMATION PANEL

Squadron™
Alarm Automation Panel

Two way communication

In times Command Center agent need to communicate with the user/intruder in remote location. Squadron comes with two options.

Option 1

DVR based two way communicator uses the DVR audio channel. The clarity of the voice is very much depends on VPN bandwidth.

Option 2

GSM based two way communicator is an independent system which is used to communicate with the user/intruder when required. Device is loaded with GSM sim and can be configured to receive calls from CMMS Command Center Agents. Calls can be recorded and retrieved as required.

ALARM AUTOMATION PANEL

Squadron™
Alarm Automation Panel

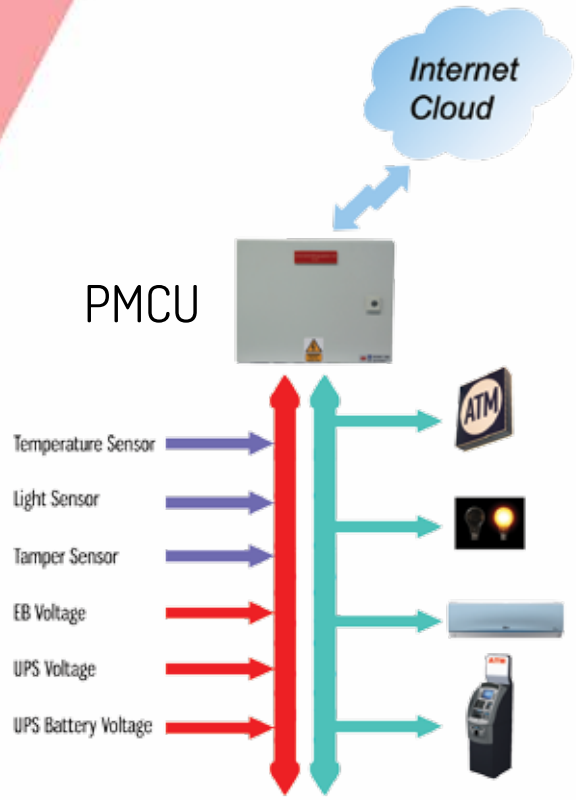
Mobile App for Field Officers

Squadron Alarm Automation Panel comes with mobile app for Testing and Commissioning Agent to ease their job.

Mobile app has all the functionalities required to configure and test the Panel. T&C Agent will connect his mobile through wireless network to the local network and will be able to configure/troubleshoot the Panel.

POWER MONITORING & CONTROL UNIT

Squadron™
PMCU



Squadron Power Monitoring and Control Unit is a new entry in Squadron family. Unique design to cater the need of tracking the electrical devices, really functioning or not.

PMCU comes with 8 number of high amps relays with current feedback, Analog & Digital inputs. It has Ethernet and Modbus connectivity to integrate with other systems.

Squadron PMCU has the capability to monitor EB voltage, UPS voltage & UPS Battery voltage also has built in tamper sensor. Moreover, PMCU can perform independently or can go with Alarm Automation Panel.

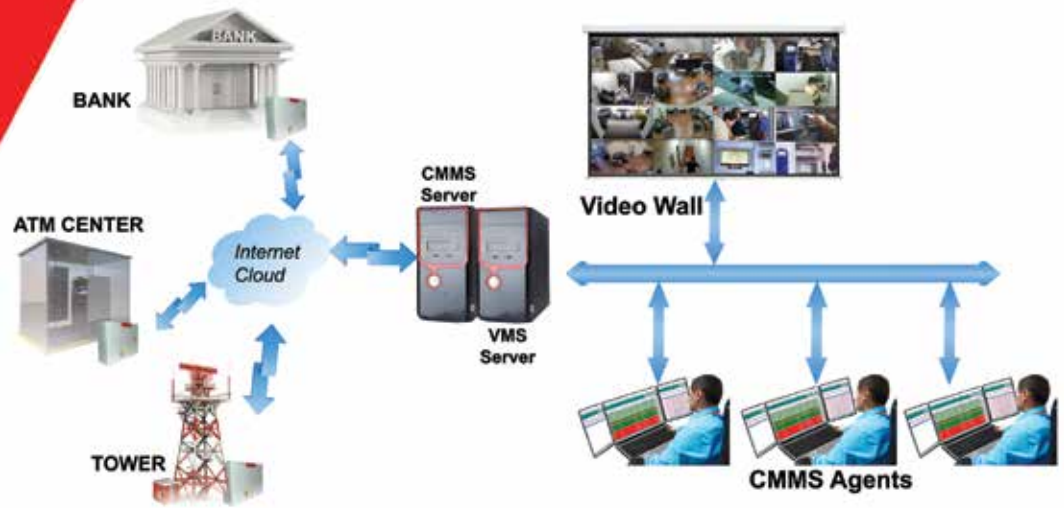
CENTRAL MONITORING & MANAGEMENT SYSTEM

Geo-Marshall™
CENTRAL MONITORING & MANAGEMENT SYSTEM

Geo-Marshall Central Monitoring and Management System is designed to monitor and manage thousands of Squadron alarm automation panels. Comes with simplified, organised and powerful user interface.

This application has facility to create any number configuration templates and apply to configure multiple sites. Administrative actions like Adding, transferring and deleting devices/sites/users are made easy.

Alerts are highly configurable and can be categorized as required. Alerts are categorised as and when received and forwarded to assigned command center agent. Escalation of alerts manually and automatically if required. Easy and powerful report generation. The new generation Geo-Marshall can communicate with any SIA based Alarm Panel.



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CENTRAL MONITORING & MANAGEMENT SYSTEM

Geo-Marshall™
CENTRAL MONITORING & MANAGEMENT SYSTEM

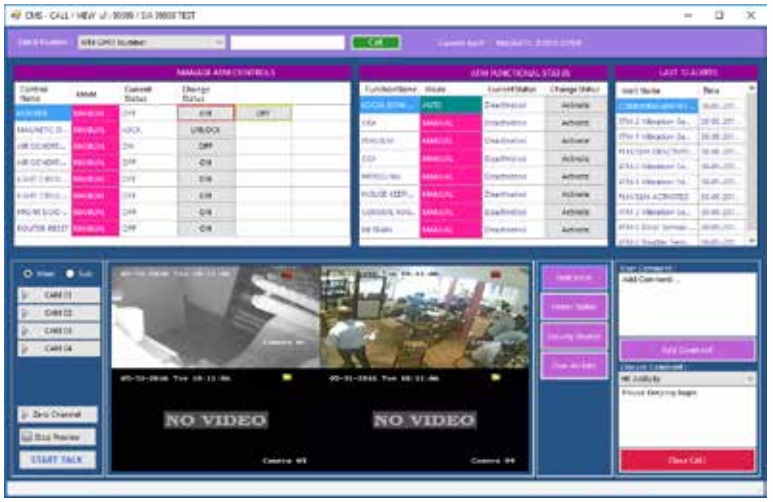
Geo-Marshall CMMS is designed keeping Command Center Agent in mind. It is developed with simple user friendly interface and loaded with all facility to configure, manage and monitor.

Critical alerts tab is kept in front all time. Rest of the alerts are kept in second tab. Agent will be able to hold and resume action on any alerts. All alerts with his remarks are stored in database for reference.

On a click, agent will be able to view all details of the site including live video. He will be able to communicate with the site if required on single click.

CENTRAL MONITORING & MANAGEMENT SYSTEM

Geo-Marshall™
CENTRAL MONITORING & MANAGEMENT SYSTEM



Video Management Server

Geo-Marshall comes with VMS server for managing Videos, Images, recording device (DVR) and storage. By introducing separate server for VMS, the core CMMS server has come down drastically. Geo-Marshall VMS is compatible with various DVRs like HikVision, CP Plus, Xpert, Dahua & Shany, etc...

Geo-Marshal video wall will always show latest critical alerts with live snapshot / video and status.

CENTRAL MONITORING & MANAGEMENT SYSTEM

Geo-Marshall™
CENTRAL MONITORING & MANAGEMENT SYSTEM

Mobile App for Patrolling Officers

Mobile app for Patrolling office will alert the patrolling officer with snapshot and video on any critical alert received from his set of sites. Also, Command Center Agent can monitor the activity/ movement of Patrolling.

About Us

We are one of the leading e-security and automation products manufacturer.

With our technical expertise, we design, develop and manufacture products that suits industries & consumers needs.

We offer a wide range of quality products in the field of

- Industrial Automation
- e-Security / Automation
- CMMS for Remote Facilities
- Power & Lighting

We focus on Safety, Security and Automation

Vision

To become the Global Innovative Leader on products we manufacture by means of delivering Highly reliable quality products and providing Excellent after sales support to uplift the Society, maintaining the best Employer Values.

Mission

Driving Technologies to design, develop and manufacture innovative & energy efficient products which makes the people Safe, Secure and Smarter.

SALES & SUPPORT

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