Case Study for remote monitoring & alerting for FAC Panel by SEnergy

Situation

- A leading supplier and integrator of fire safety system
- Having several installation of fire safety systems in the region.
- Fire/smoke detector sensors and control panels installed in the customer facility spread across vast area.
- Very limited access to those FAC Panels.
- Wanted to remotely monitor the status and alerts in the panel.
- Also wanted to have real time monitoring of
  - any intrusion, ambient conditions like temperature & humidity of the location in which the panels are installed.
  - on the proper working conditions of the panels
- Deploying manual monitoring is uneconomical and nearly impossible.

Task

- Real time alerting for any
  - Fire Alarm conditions
  - threshold breaches, status changes and malfunctioning of the FACP components
  - Threshold breaches/status changes of the environment in which the panel is installed

Action

- Site survey done in the targeted locations to collect the existing detail
- Supplied and installed smart temperature and humidity sensor inside the room where the panel was installed, door status sensor and associated hardware and networked with SEnergy.
- To be flexible with the site condition, where any type of cabling was not possible, SEnergy provided hardware which is compatible with SIM card solution to provide internet access.to push the data to cloud.
- Connected the alarm contacts from the in-built modules inside the control panel to SEnergy hardware to integrate with SEnergy.
- Data collected from the sensors/contacts were sent to SEnergy cloud for real time access and analysis.
- Real time monitoring done for,
  - Fire alarm status and other "Urgent"& "Non-Urgent" alarm
  - key parameters like ambient temperature, humidity, input electrical power, back up battery status, door closing/opening status etc.
- Configured the threshold levels and alerts for the required parameters.
- Provided any where, any time access for multiple facilities in a single dashboard.
- Notified the anomalies & threshold breaches by E-mail, WhatsApp and In-App on real time.
- Notified the anomalies & threshold breaches by SMS to mobile by the SMS gateway provided by client
- Automated customized reports for alerts with time stamps shared by E-mail on daily basis.

Result

- SEnergy helped customer to
- ➢ Get full visibility of the system and equipment, remotely.
- ➢ Avoid costly manpower deployment.
- ➢ Comply with the regulations of local Civil Defence Authority
- ➢ Have improved decision making by speedy problem detection and resolution.
- ➢ Reduce
  - downtime and ensure efficient working of the panel
  - operating and opportunity costs.
- ➢ Make the O&M team aware of preexisting blind spots.