

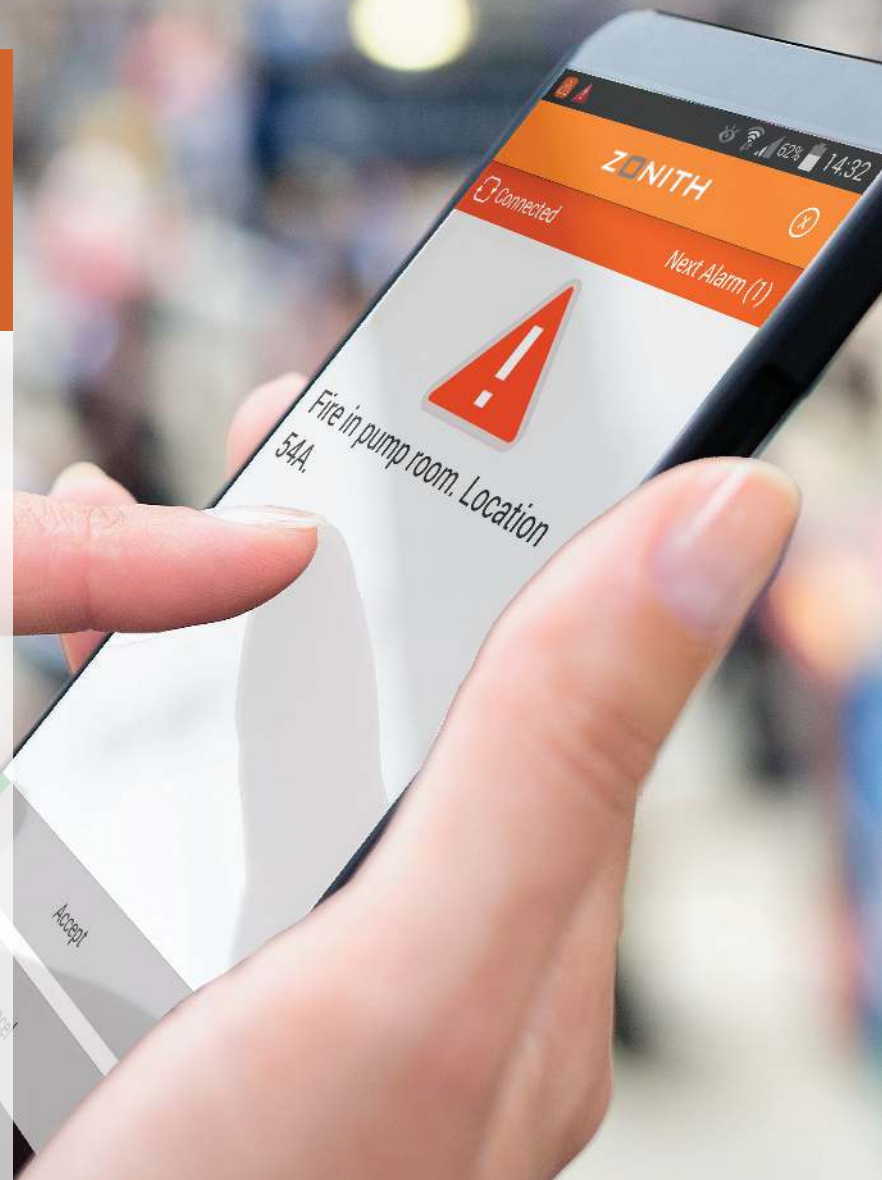
# ZONITH

## ALARM CONTROL SYSTEM

### AUTOMATIC HANDLING OF TECHNICAL, FIRE, PANIC AND STAFF SAFETY ALARMS

The Alarm Control System (ACS) is a platform that improve efficiency at work places by ensuring alarms are handled quickly and by notify appropriate staff via their radios, SmartPhone, PC or other wireless devices. Companies and organisations requiring the highest level of safety and stability for the protection of their staff and assets use the ACS.

- Operates automatically 24x7x365.
- Monitor any technical, fire, panic or staff safety alarm.
- Within seconds of the alarm being raised the alarm output will reach the handheld device of the responders.
- Notify individuals or group based on their competencies and schedule.
- Escalate unacknowledged alarms.



The Alarm Control System is able to monitor the majority of alarm sources via it's standardised interfaces. It is scalable and can handle small systems with a few critical alarms to large installations with thousands of alarms from many sources.

## FIRE ALARM MONITORING



- Detailed fire alarm information is sent to handheld devices & PC's, complete with room, sensor and alarm type for immediate response.
- First responders can acknowledge the alarm via a handheld wireless device, saving time and money by avoiding the emergency response from the fire brigade for false alarms. Hotels and restaurants using ACS are not evacuated unnecessarily.
- Assuming the fire is real, doors, gates and other access routes to the facility can automatically be opened for the fire brigade to enter quickly.

## AUTOMATION SYSTEM ALARM MONITORING



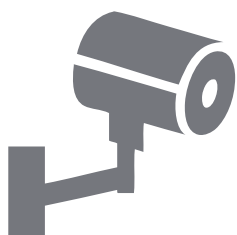
- Interfaces to automation systems (e.g. SCADA & PLC) via generally accepted industry standard interfaces. High level OPC as well as low-level RS232 interfaces are available.
- Alarms from the automation systems are inspected for their criticality and type. Process alarms are sent to chemical process engineers, whilst maintenance alarms are passed on to the technician on duty.
- Pre-warning alarms can be passed on to the operators on their handheld wireless device while in the plant and thereby prevent the plant from malfunctioning and production to be lost.

## BUILDING MANAGEMENT SYSTEM MONITORING



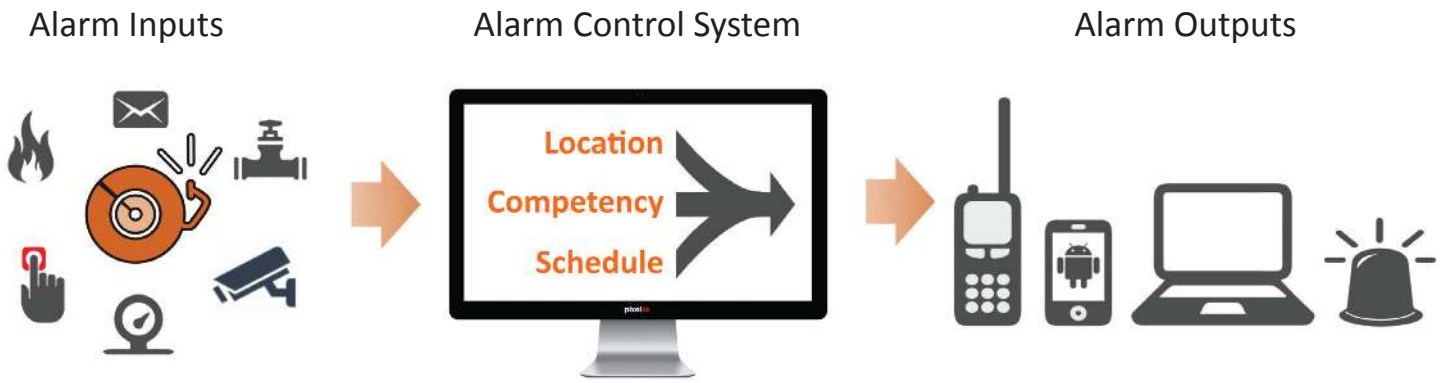
- From data hosting centers to hotels, in-house technical installations must be functioning at all times.
- Alarms monitored from Building Management Systems (BMS) include: High or low temperature alarms, ventilation or air conditioning malfunctioning, water leakages or elevator alarms. Once raised, they are sent directly to the technician on duty on their wireless device, whether on or off site.

## SECURITY ALARM MONITORING



- ACS can pick up movement alarms from CCTV cameras during the night and pass on the alarm to the guards on patrol. The guard will then be notified about potential security risks even while away from the control room.
- Assets, such as paintings at museums or projectors in meeting rooms, can be monitored and if they are removed the guard will immediately receive the alarm on their radio including information about the location of the asset.
- Panic Alarms from a security guard in distress are passed on to colleagues.

## ALARM CONTROL SYSTEM FUNCTIONALITY



## ALARM INPUTS



SMTP Email



Serial/ASCII



Radio Text Message



WiFi



I/O Listener



Command Line



Bluetooth Panic Buttons



Phone Alarm



OPC & SNMP

- The ACS has standard interfaces for the majority of technical protocols.
- The Intuitive user interface guides the user to set-up and monitor inputs, including alarms from radios, serial connections or a variety of other devices/protocols.
- Multiple alarm inputs can be monitored at the same time.

## ALARM FILTERING, SCHEDULING, ESCALATION AND REPORTING



- The ACS is accessible from any networked web browser.
- ACS pairs each alarm notification with the right individual based on their competence, location and schedule.
- The closed loop system ensures alarms are acknowledged, resolved & closed. Should an individual decline or fail to respond to an alarm, ACS escalates the alarm to the next available person(s).
- ACS's rich reporting features allow administrators to track how long it takes employees to respond, accept & close alarms.

## ALARM OUTPUTS



- Support for digital radios, GSM phones, Android Smartphones and other "off-the shelf" devices.
- Multiple devices can receive alarms at the same time.
- For example, technicians can receive machinery alarms on their radios while at work, whilst management can also be notified via SMS on their GSM phone at home.

Many organisations around the globe are using the ACS for monitoring the well-being of their staff via a number of add-on modules.



### REAL TIME POSITIONING OF STAFF

The ZONITH Real Time Location System (RTLS) integrates both Bluetooth technology to monitor staff indoors and GPS technology to locate staff outdoors.

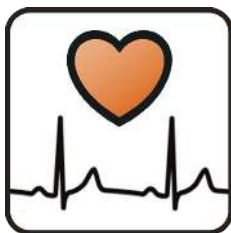
The RTLS saves lives by providing real-time information about the location of people in need, giving rescuers a tool for quick response.



### BLUETOOTH PANIC ALERTING AND POSITIONING

ZONITH Bluetooth ID Badge based panic buttons provide a quick, cheap & convenient way to summon help in dangerous situations. From reception desks to security checkpoints, classrooms & mobile devices, ZONITH's wireless Bluetooth ID Badge panic buttons keep employees connected and safe.

In addition to the panic alerting, the buttons are positioned in real time using the RTLS functionality. This gives responders and guards the ability to quickly located and assist any person in danger.



### LONE WORKER PROTECTION

ZONITH Lone-Worker (L-W) periodically pings workers to verify their well-being. Should a worker fail to respond to an 'Alive Check' message an alarm is raised notifying the response team. L-W can be activated when a geo-fence is crossed using the RTLS system mentioned above. For example, if a staff member enters an unsafe area like a boiler room, L-W can automatically be enabled. When they return to the safe area like the break room, L-W is disabled.



### MAN DOWN PROTECTION

The Man-Down protection App takes the lone worker protection even further. Should an employee suffer a fall or accident, accelerometer in the device will register the incident and notify colleagues and/or supervisors of the emergency and the employee's last known location.

## ABOUT ZONITH

ZONITH is a manufacturer of solutions for Alarm Handling, Positioning and Staff Safety. With offices in Copenhagen and Warsaw, ZONITH enhances the safety of thousands of people every day. ZONITH's software applications complement digital two way radios such as TETRA, Motorola MOTOTRBO, Kenwood NEXEDGE, Kenwood DMR and Hytera DMR digital radios, as well as GSM and Android phones.