



Linking Fire Alarms to MOTOTRBO Radios

The Customer

The EUROSTAR Engineering Centre Temple Mills has a main single ended shed with eight 400m long roads, each capable of housing a full Three Capitals EUROSTAR train. The main shed building is 435m long, 54m wide and has a roof height of 12m.

This enormous facility is protected by a PROTEC fire alarm system monitoring over eighty five individual fire protection zones. The maintenance engineers working on the train communicate using a MOTOTRBO radio system and GP680 handsets.

The Need

Due to the scale of the engineering facility EUROSTAR management wanted to link the fire alarms to the individual MOTOTRBO handsets of its employees. By immediately notifying engineers and fire marshals of the exact location of the triggered fire alarm, people no longer need to waste valuable time returning to the control panel to assess the scale of the emergency.

The Solution

A single serial communications port on the PROTEC fire panel is linked to a computer. ZONITH Alarm Control System (ACS) software is installed to monitor inputs from the communication port. The computer with the ZONITH ACS is also connected to a MOTOTRBO DM3600 radio.

When a fire alarm is triggered the PROTEC system outputs a report to the serial communication port which is interpreted by an ASCII Listener. An action filter and intelligent scheduler within the ACS matches the alarm details to the fire marshals and employees working in that particular zone.

A alarm text message is instantly dispatched to the MOTOTRBO radios of the fire marshals and employees enabling them to take immediate action. Employees no longer need to return to the fire panel to know where the fire alarm has been triggered.



Fire marshalls are immediately informed of the exact location of the triggered fire alarm. Fire marshalls can quickly assess the level of emergency and either control or escalate the response.

Solution Benefits

- ▶ Engineers are instantly notified by text message, vibration alert and radio alarm tone.
- ▶ People on-the-move are immediately aware of the exact location of the fire alarm.
- ▶ Fire marshalls can quickly assess the level of risk to determine if a fire crew call-out is required

