

# Making Your BMS / BAS Work Smarter

When every second counts

StreetTrek Solutions



# Introduction

- **Leonard Knigin** with over 50 years experience in the Radio Communications Industry
- **StreetTrek Solutions** with over 10 years experience writing complex software for Motorola MOTOTRBO Digital Two-Way Radio Systems

## Aim

- Making your BMS work smarter by alerting engineers to building alarms FASTER via JobTrek SMTP Mail Server and Motorola Digital Two-Way Radio.
- When every second counts decreasing engineers and maintenance personnel response time to critical building situations.
- Increase the safety of building and tenant personnel.
- Alerting in-building fire response personnel.

# System Requirements

- BMS / BAS System capable of sending emails
- Fire Alarm System capable of sending emails
- Motorola Digital Display Two-Way Radios
- Motorola Digital Repeater
- StreetTrek Solutions JobTrek SMTP Mail Server

# History of BMS / BAS Alerting



Voice  
Announcements



Radio  
Announcements



Custom made Fire  
Alerting System  
Early 1980



Zetron 8 point  
Alerting System  
Early 1990



Zetron 64 point  
Alerting System  
Early 1990



Zetron 250 point  
Alerting System  
Mid 1990

## Automation



StreetTrek SMTP  
Mail Server  
Alerting System  
2016

# How Did The Alarms Get To The Engineers

VOICE



VOICE



VOICE



VOICE & TEXT



VOICE & TEXT

# Typical BMS / BAS System

Local Area Network Switch



BMS / BAS  
Server



JobTrek  
SMTP Server



Motorola Repeater

# BMS Case Study

An office building had the need to send BMS Alarms to their in-building radios.

Originally their alarms went to Smart Phones that required the alarms to be sent through the internet. By sending the alarms through the internet they exposed their entire network to all kinds of malware and viruses. Guess what happened?

By now you know the answer.

Once they had put their network back together they contacted StreetTrek Solutions to see how they could get their BMS Alarms to their radios. The major requirement was that the alarms MUST NOT be sent through the internet.

StreetTrek Solutions proposed their JobTrek SMTP Mail Server. This Mail Server sits on their network behind the firewall, therefore limiting the networks exposure to viruses and malware. StreetTrek Solutions also proposed That they purchase Motorola XPR7550 Digital Radio as an addition to their existing Motorola Digital Radio System. This radio can accept 280 characters of text and display the message on a 4 line color display. Additionally the text message can be converted to a voice announcement by the Text to Speech option available for the radio.

When their BMS detects an alarm condition the alarm message is sent by email to the JobTrek SMTP Mail Server where it is formatted as a text message and sent to the Motorola Digital Repeater and then out to the engineers radios. The engineers radios receive the alarm message as a text message and the Text to Speech feature reads the message to the engineer. The radio then sounds an alert. The alarm message is now displayed on the radio. Should the engineer miss parts of the voice announcement, they can always look at the display for the written record of the alarm message.



# Actual Radio Alert



Click Picture To Play Video

# Thank You

Contact your local Motorola Radio Dealer  
or

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