

# University College Dublin Digital Radio Dispatch System



## System Components

- Mototrbo DR3000 Repeaters with IP Site Connect
- TRBONET Control Room Dispatcher Software
- Mototrbo DM3600 Desktop Base stations
- Mototrbo DP3400 Portable
- Mototrbo SL400 Portables
- Mototrbo Impress Battery Charging

## Introduction

UCD Buildings and Services office provides security enforcement and facility services on the largest university campus in Ireland. This role entails staff carrying out daily duties throughout the numerous buildings and extensive grounds of the campus. UCD required a single integrated communication solution that would provide full radio coverage of the campus, remote system management and increased safety levels for personnel on a 24/7 basis.

## Campus Digital Radio Solution

Having had extensive experience with deploying Motorola's MOTOTRBO Digital Mobile Radio systems for similar applications, EMR had no hesitation recommending a solution integrating the Mototrbo radios and TRBONET control room dispatcher application to UCD's Buildings and Services Department. This system delivers a multi-operator control room environment that integrates voice and data communications, remote GPS tracking and emergency lone worker protection for staff in a single expandable communications solution. In addition, MOTOTRBO IP Site Connect allowed the deployment of multiple interlinked base station repeaters to ensure seamless coverage throughout the complex including in basements and high density structures where radio coverage had previously been an issue. This eliminated black spots and gave users total confidence that in an emergency the control room personnel would be in immediate contact

Staff use Motorola MOTOTRBO DP3401 portable radios which are robust, waterproof and ideally suited for outdoor activities. This radio provides critical voice, emergency, GPS location and data communications between remote staff and control room operators. The Impress battery provides a self-managing charging solution critical for enhancing the performance and duration during extended shifts. This integrates with a PC application which connects with the multi-chargers to keep a record of the condition, charging cycles and any fault conditions, and in this way avoids the problem of non-performing batteries entering active service.

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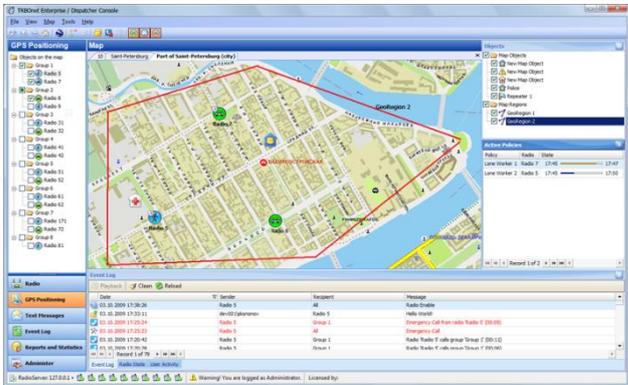
## About MOTOTRBO

While the primary function of the radio system has traditionally been job despatch, the requirement for automated vehicle and staff location has taken on greater importance. Built on the latest DMR technology platform, Motorola's MOTOTRBO solution incorporates a host of features that significantly improve operational performance with greater audio clarity, a doubling of the channel capacity, enhanced network coverage and extended battery life while also incorporating encryption. A suite of accessories and software applications have been developed that allows EMR provide bespoke solutions tailored to meet the precise requirements of each application. This software includes applications for despatch and GPS tracking, indoor positioning, job ticketing, alarm notification and telemetry control. As the fastest growing radio technology, DMR is at the forefront of the move from analogue with further hardware and software enhancements improving the operational effectiveness of two way radio.



## About EMR

Established in the early 1980s EMR has grown to become one of the leading system integrators in the wireless communications and automation systems in Ireland. With customers including UCD, DSPS, ESB, Eircom, Northern Ireland Water and the US Embassy to name but a few, we take pride in delivering the best solutions from the world's leading manufacturers.



*"EMR recommended the Motorola and TRBOnet system to provide an expandable solution for communication and management of campus staff. The operational benefits have been very evident; staff efficiency and safety levels have increased, especially for the after-hours and weekend duty staff. We have found the overall performance and operational capabilities of this Motorola system to be better than any two way radio system we have used previously."*

UCD Buildings & Services Dept.