



ALL ABOARD WITH MOTOTRBO™

MPK WLOCLAWEK DEPLOYS MOTOTRBO FOR RELIABLE COMMUNICATION ACROSS BUS NETWORK



MPK Wloclawek operates 1 depot and 63 buses along 260 km of bus routes in the city of Wloclawek, Northern Poland. It has over 230 employees, including more than 130 bus drivers. Passenger satisfaction and safety are its top priorities.

Having previously used an analogue radio network, MPK Wloclawek decided to upgrade to a digital network. It wanted more reliable communications throughout the city network and enhanced applications, such as GPS positioning, to effectively track and deploy its vehicles, a panic alarm system and recording of voice communications. It approached Radiokomunikacja Grzegorz Zimny, an authorised Motorola Solutions radio reseller with over 15 years' experience in radio communications systems.

Following a tender, MPK Wloclawek deployed one DR 3000 repeater, a range of MOTOTRBO radios and the TRBOnet™ Enterprise 2.8 software, developed by Motorola Solutions' application partner, Neocom Software.

The system has minimal infrastructure and was quick and easy to deploy. It allows drivers to stay in regular contact with the dispatch centre wherever they are on the bus routes. Extended capabilities, such as data transfer and GPS, mean that drivers and dispatchers can work together to ensure buses are optimally routed, passenger safety is enhanced and drivers can do their job as effectively as possible.

CUSTOMER PROFILE

Organisation

Miejskie Przedsiębiorstwo
Komunikacyjne Sp. z o.o.
(Wloclawek Municipal Transport
Company, Poland)

Industry

Transportation

Partners

Partner: Radiokomunikacja
Grzegorz Zimny
Application Partner:
Neocom Software

PRODUCTS

Infrastructure

- 1 DR 3000 Repeater

Radios

- 1 DM 3600 Mobile Two-Way Radio
- 45 DM 3401 Mobile Two-Way Radios
- 1 DM 4601 Mobile Two-Way Radio
- 20 DM 4400 Mobile Two-Way Radios
- 1 DP 3601 Portable Two-Way Radio

Other products

- TRBOnet™ Enterprise 2.8

CASE STUDY

MPK WLOCLAWEK: MOTOTRBO

'Thanks to the MOTOTRBO network and the TRBOnet Enterprise software, our drivers and dispatch team have an enhanced, reliable communications system, which has improved passenger experience and increased safety on our buses. Our drivers love the easy-to-operate radios. Moreover we can achieve clear voice reception across our whole bus network with one single DR 3000 repeater. This has substantially reduced infrastructure costs.'

Marek Krygier, President, Wloclawek Municipal Transport Company

THE CHALLENGE

MPK Wloclawek had been using an analogue radio network. However, they wanted improved radio coverage along the more remote bus routes and increased capabilities, such as secure recording of voice communications, GPS tracking and remote dispatching. To address all these issues, MPK Wloclawek decided to update to a digital radio network.

With low initial investment, long-term cost-effectiveness, scalability and ease of deployment all also being on the list of requirements, MOTOTRBO was the obvious solution.

THE SOLUTION

MPK Wloclawek installed one DR 3000 repeater at its head office. This sole repeater provides continuous coverage across its entire bus route network. It then equipped all its buses and dispatchers with a variety of UHF MOTOTRBO radios.

The MPK Wloclawek system provides secure radio communication between the dispatcher and the driver. Therefore, when the driver needs to talk to the dispatch centre, he presses the one-touch pre-programmed conversation button on the radio when he reaches a bus stop. Then he awaits a call back from the dispatcher. Similarly, if the dispatcher calls the driver, he will respond once he arrives at a bus stop. Usual journey time between stops of approximately three minutes means communication can be made on a regular basis, if need be. The second programmable button enables the transfer of telemetric data, such as information about a control completed by a ticket inspector.

In extreme situations, the driver can press a further button to generate a panic alarm indicating the need for assistance on the bus.

A dispatcher will prioritise an emergency alarm over any other communication. Via the GPS function, he can immediately

pinpoint the location of the bus and request dispatch of the appropriate assistance, whether a member of the MPK Wloclawek team or emergency services.

MPK Wloclawek has installed version 2.8 of the TRBOnet Enterprise dispatch software on the computers in the dispatch centre. The application connects directly to the DR 3000 repeater, which has significantly increased the stability of the system. Previously the communication took place via a USB plug, often leading to data not being transferred correctly and fully to the computer on which TRBOnet was installed. The new software, working in conjunction with the MOTOTRBO system, enables dispatchers to communicate with the drivers via the computers, identify which radios are turned on or off, and easily locate the position of the buses. It also allows MPK Wloclawek to record all voice communications, for increased safety, in case of disputes and for training purposes. Dispatch can also check the speed of the buses, the route, where and for how long they have been standing.

Finally a service contract with Radiokomunikacja Grzegorz Zimny provides 24/7 system monitoring and repairs, to ensure the drivers can remain in constant contact.

THE BENEFITS

The easy-to-use MOTOTRBO radios have increased driver and dispatcher efficiency for MPK Wloclawek. Important voice communications are clear and crisp, irrespective of bus location. With enhanced features such as GPS and panic alarms, response times to potential emergencies have dramatically decreased. Driver and passenger safety has subsequently improved.

Moreover, with one DR 3000 repeater able to provide reliable coverage across MPK Wloclawek's entire bus route, the network was very simple to deploy and exceptionally cost-effective.



Applications

- Reliable audio and data communications between drivers and dispatch centre
- Driver panic alarm system
- GPS vehicle tracking
- Secure recording of all voice communications

Key Benefits

- Clear, reliable audio across the bus network
- Telemetric data transfer
- Increased channel capacity with TDMA technology
- Improved driver and passenger safety
- Real-time locating and route changes in case of accidents, emergencies or long traffic jams via GPS
- Easy-to-operate radios
- Cost-effective minimal infrastructure

For more information about how MOTOTRBO can improve communications and the safety of your operations, please visit www.motorolasolutions.com/mototrbo or access our global contact directory at: www.motorolasolutions.com/contactus

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