**INTRODUCTION**

**COMBINING THE BEST IN TWO-WAY RADIO FUNCTIONALITY WITH DIGITAL TECHNOLOGY**

MOTOTRBO delivers increased capacity and enhanced functionality but also makes it possible to expand communications beyond voice. MOTOTRBO solutions enable organisations to expand the functionality of their digital radios with integrated applications such as text messaging, location-based services (LBS) and telemetry as well as the capability to customise solutions using an internal option board.

**MOTOTRBO CAPABILITIES BEYOND VOICE**

- **TEXT**
  - Text messaging initiation and response
- **SUBSCRIBER GPS POSITIONING, MAPPING AND GEOFENCING**
- **JOB TICKET RENDERING AND RESPONSE TO ENTERPRISE WORK ORDER SYSTEMS**
- **CUSTOM APPLICATION USING AN RTOS ON THE RADIO ‘OPTION BOARD’**
- **DATA BACKHAUL TO PERIPHERAL DEVICES**
- **RADIO LOCATION AND PRESENCE FOR RESPONSE AND SAFETY**
- **TELEMETRY AND IO FOR MONITORING OF CRITICAL EQUIPMENT**
- **TEST MESSAGING INITIATION AND RESPONSE**

**WITH THE INDUSTRY’S LEADING APPLICATION ECOSYSTEM, MOTOTRBO OFFERS A COMPLETE RANGE OF APPLICATIONS EMBRACING ALL YOUR OPERATIONAL NEEDS.**

Through our MOTOTRBO Application Developer Programme (ADP), we collaborate with industry experts around the world, providing access to our MOTOTRBO technology for the creation of customised and integrated communication solutions. ADP Partners are software developers and system integrators who have proven their expertise and commitment to deliver high quality, integrated and customer-focused applications for a wide range of industry sectors.

**EXPAND YOUR COMMUNICATIONS BEYOND VOICE**

Business-specific applications increase the level of efficiency, safety and productivity throughout your enterprise. Whether workers are making deliveries, managing guests, repairing roads or restoring power lines, data applications change the way employees collaborate and transform an enterprise.

**SAFETY**

Increase the safety of your staff and lone or ‘at risk’ workers by deploying alarm management, indoor localisation, man down and guard tour applications. Features such as Man Down and Lone Worker can be linked to indoor and outdoor location tracking applications for maximum effectiveness.

**INTEROPERABILITY**

Infrastructure and network components to connect and interoperate seamlessly with other radio systems, telephony systems and mobile computing devices for more efficiency and collaboration.

**CONTROL ROOMS**

Giving you centralised control of your workforce, these applications offer customizable user interfaces to allow your dispatcher to coordinate your staff effectively. They offer features such as voice dispatch, text messaging, events logging and work tracking, which can all be combined to location tracking to enhance business efficiency.

**DATA TRANSMISSION & TELEMETRY**

Stay in control and conveniently monitor machine or facility alarms and remotely control doors with advanced telemetry solutions.

**SYSTEM MONITORING**

To get the best from your MOTOTRBO system, you need to know how it’s performing. These applications give you a dashboard view of key metrics and parameters, with detailed logs on your radio system usage helping you to optimise performance and define future system growth and upgrades.

**THE MOTOTRBO APPLICATION DEVELOPER PROGRAMME DELIVERS OUTSTANDING APPLICATIONS. FIND THE APPLICATION AND MOTOROLA PARTNER TO MEET YOUR SPECIFIC NEEDS AND TAKE YOUR COMMUNICATIONS TO THE NEXT LEVEL.**
APPLICATION FEATURES

Quickly locate and get a first understanding of the MOTOTRBO applications that will meet your specific needs in the Application Features summary table.

With the industry’s largest Application Developer Programme there is a wide portfolio of MOTOTRBO solutions available from our ADP partners. A comprehensive view of all available applications organised by application category helps you quickly find key characteristics and features for each application.
CONTENTS

CONTROL ROOMS

SAFETY

INTEROPERABILITY

DATA TRANSMISSION & TELEMETRY

SYSTEM MONITORING
CONTROL ROOMS
CONTROL ROOMS

Choose from a whole range of solutions designed to help control rooms enhance productivity and streamline operations. Managing mobile fleets with a centralised dispatch application enables organisations to work more efficiently and respond more quickly. Identify the exact location of personnel and vehicles using integrated GPS and tracking applications, so the nearest operative can be dispatched for the job. This improves customer service and staff safety, while also saving valuable time and reducing operating costs. Simplify workflow management by issuing work order tickets immediately to the right person using your MOTOTRBO radio and alleviate the hassle of manual paperwork. In addition, managers can monitor the progress of tasks remotely, freeing up more time for other priorities.

Text communication and email applications allow you to communicate discreetly, so guests aren’t disturbed and security isn’t compromised. They also contribute towards more precise communication for relaying important information such as part numbers.
C.O.DI.CE II
RADIO DISPATCHER, CALL LOGGING, VOICE RECORDER

C.O.di.CE is an integrated and modular dispatch system, based on a Client-Server architecture, for the management of voice and data communications suitable for multi-operator, multi-channel and multi-protocol PMR networks.

C.O.di.CE has been designed for the radio operator to considerably improve their situation awareness of the fleet. It allows the operator to react very rapidly even in case of emergency. Easily configurable even by unskilled users, C.O.di.CE permits an independent configuration for each channel to manage different radio protocols at the same time without changing user operation mode.

C.O.di.CE includes an integrated call logging and voice recorder that capture the radio traffic on each channel and store everything on low cost digital storage. Radio communications can be rebuilt at any time. The dynamical phonebook, with its dual display mode, allows the operator to effectively communicate with the fleet and allows a real time radio fleet expansion.

The radio positions are displayable on Google Maps (requires Internet connection) and Google Earth (requires Internet connection or maps caching).

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
Motorola DM/DP series.

Computer Hardware / Operating Systems
PC with OS Microsoft Windows XP PRO or higher.

Interfaces
RS232 port for conventional radios or TETRA radios. USB port for MOTOTRBO radios. Ethernet card for client/server architectures. Sound Card for voice recorder.

MOTOTRBO System Architecture

KEY FEATURES & BENEFITS
• Full voice and data solution.
• Events logger with offline analysis.
• Voice call recorder with real time playback.
• Predefined and free text messages.
• Several safety levels.
• Easy to use.
• Modular.
• Multimonitor, multichannel and multi-protocol (5T, ETS 300 230, DMR, TETRA).
• Efficient use of channel bandwidth.
• Easy configuration.
• Fully integrated with AVL software ShortTrack.
• Open to third party applications (protocol available for developers).
• Supports analogue conventional and digital radios (both DMR and TETRA).
• Scalable from one single operator with a stand-alone laptop to large control center with several parallel operating positions.

FIND OUT MORE
WEB: www.saitel.it

ALSO FROM SAITEL
ShortTrack.GT | TRBMove | ShortTrackLive | PHOENIX

MARKETS
Public safety (Police, Ambulance, Fire Brigade), Rescue Services, Transportation, Industry market (Oil & Gas, Steel industries...).

DISTRIBUTION
EMEA.

LANGUAGES
Italian, English.
Other languages on request.
CMO
COMMUNICATIONS MANAGEMENT OPERATOR

CMO is a multifunctional operating unit that allows communications between heterogeneous networks. CMO provides different management services, such as Dispatcher Functions, Radio Localisation, GPS navigation and Call Recording.

The framework is based on Interox System, a Client/Server architecture that guarantees maximum expandability of the number of Client and the future integration of new technologies.

With CMO, the radio audio is converted into a VOIP signal and sent from Server to Client and vice versa. This technology allows flexibility and remote control of the network. On request it is possible to customise the CMO functions and modules.

CMO is targeted at public and private administrations for security and control purposes and all authorities that need interconnections, localisation and coordination between operators working on a wide territory.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
DMX900 release 1.4 or higher, compatible since release 01.02.03, IPDSD Motorola Driver, Motorola connection wire PMX94016A.

Computer Hardware / Operating Systems
Workstation PC with Microsoft OS. IPv4/v6, one sound card device per channel and one port (Serial/USB) per channel. Suggested Pentium 4 or equivalent, 1Gb RAM, 50 Gb HDD.

Interfaces
iRadio Gateway hardware supplied by Eurocom Telecommunicazioni.

MOTOTRBO System Architecture

Other Requirements
Experience in MOTOTRBO radio programming. Basic OS and IT administration knowledge required.

KEY FEATURES & BENEFITS

• Developed to serve public and private administrations for security and control purposes.
• The software is able to connect different types of users using different technologies (PMR, DMR, TETRA, GSM/GPRS, PABX and HF). For example, a police headquarters, through CMO, is able to coordinate a complex scenario, operated by different authorities such as firefighters, ambulance and police, using different radio devices.
• Client / Server architecture.
• GPS navigation, radio localisation.
• Call recording / Coding.
• Scalable.
• VOIP based.
• Cross Patch functionality.
• Telephone Communications.
• Support heterogeneous technology.
• Cross Patch (telephone interconnect).

FIND OUT MORE
WEB: http://cmo.eurocomtel.com

ALSO FROM EUROCMTEL TELECOMUNICAZIONI
TRBOnove | Adeo-Interex
ConSEL is a dispatching console with GPS location monitoring, allowing remote management of radios fleet by providing access to the full functionality of MOTOTRBO™ radios and IP Site Connect repeater systems from the control room.

With the ability to display and control the full radio menu and repeater slots on the computer screen in the control room, ConSEL allows the dispatcher to control the fleet without having to use any radio directly.

ConSEL allows group and individual number creation and call setup. It can act as a functional voice recorder with call history and allows transmission of both voice and data.

**SYSTEM REQUIREMENTS**

**Radio Hardware / Releases Compatibility**

- MOTOTRBO DM and DP series, firmware v1.6
- Computer Hardware / Operating Systems
  - PC with O.S. Microsoft Windows XP / Vista / Windows 7
  - Pentium III, 512Mb RAM, Sound card

**Interfaces**

- USB for connection to a Base Radio, Ethernet for remote connection, Audio.

**Other Requirements**

- Training for authorised partners and service engineers.

**CONSEL**

**CONSEL IS IDEAL FOR MANAGING INTER-AGENCY OPERATIONS SUCH AS POLICE, AMBULANCE OR RESCUE SERVICES AND FOR CRISIS MANAGEMENT OR SECURITY PURPOSES.**

**MARKETS**


**DISTRIBUTION**

- EMEA, USA.

**LANGUAGES**

- English, Polish.

**KEY FEATURES & BENEFITS**

- Enhances overall operational performance.
- Shorter time of response and intervention.
- Improvement of service in the area.
- Reporting and analysis.
- Documentation automatisation.
- Enhances system reliability & security.
- Remote control of radios (DM3XXX, DM4XXX), IPSC repeaters (DR3000, MTR3000).
- Multiple IPSC systems management.
- Voice & data transmission.
- GPS location monitoring.
- Text messaging.
- Channel selection, calls, programmable user button.
- Voice recorder and call history.
- Radio visualisation.
- Configurable status system.
- Telemetry – fuel consumption etc.
- Customised maps, also own raster maps editor.
- Patching (group, individual).
- Base stations voting (RSSI).
- Touchscreen optimised.
- Intercom / chat between Consoles.
- Support PABX connection (SIP).

**FIND OUT MORE**

WEB: www.aksel.com.pl/product/show/id/74
CUPOL
USER FRIENDLY MOTOTRBO DISPATCHING SYSTEM

Cupol software was developed in close collaboration with Motorola System Partners and specifically designed to build complex dispatching systems based on MOTOTRBO radio equipment and infrastructure.

Cupol software supports all key features of the MOTOTRBO technology, such as multi-channel two-way voice communications of a dispatcher with subscribers, transfer of all types of data (text messages, telemetry, emergency, etc.) or also subscriber location control service. It provides the ability to build a tiered hierarchy of dispatchers located in different geographic sites with the possibility to configure each dispatcher separately depending on their needs.

Cupol supports the following MOTOTRBO system topologies: digital and analogue conventional network, IP Site Connect, Capacity Plus and Linked Capacity Plus.

Cupol’s flexible licensing allows users to only pick the software components they need, meaning they can build the dispatch solution that exactly match their needs and not overpay for excessive and unclaimed functionality.

SYSTEM REQUIREMENTS

Radio hardware / Releases compatibility
MOTOTRBO radio with firmware 1.08 or higher.

Computer Hardware / Operating Systems
Windows 7 / Windows 8 / Windows Server.

Interfaces
Ethernet, USB cable for Control Radios.

MOTOTRBO System Architecture
IP Site Connect, Capacity Plus and Linked Capacity Plus.

KEY FEATURES & BENEFITS

• Client/Server solution.
• Multisite multichannel solution.
• Trunking systems support.
• Support MOTOTRBO features: voice, text messaging, telemetry and positioning.
• Events logging.
• Voice recording.
• Location control functionality (geo-fencing, speed control and etc.).
• Support for online and offline vector and raster maps.
• Emergency features support: Man Down and Lone Worker.
• Support for configuring each dispatcher console.
• Option board functionality integration.
• Flexible licensing.
• Easing the migration from analogue to digital.
• Customisation to suit client’s needs available.
DMRAalert® INTRACK

INDOOR TRACKING SYSTEM

DMRAalert® INTRACK is a powerful dispatcher specifically designed for Shopping Centres, combining full automatic indoor tracking, job ticketing, guard tour patrol management, lone worker and man down safety.

It allows the management of different teams such as technical, security and cleaners, with all radio movements being tracked and recorded throughout the site and stored on the server. Localisation of staff is done thanks to wireless beacons which are battery powered meaning no third party network is required, and location is displayed on a multi floor layout map GUI combining staff location and other alarms.

One main application is the use of this data for insurance purpose. It also enables to efficiently monitor tasks, for instance the geo-fencing feature can generate an alarm if the toilets have not been visited and so cleaned for a specified period. Also, the user is immediately alarmed if an unauthorised radio is detected in an area. The Job ticket functionality enables the creation and dispatch of tasks, and provides a colour-coded report on the dispatcher interface showing the status and progress of tasks.

KEY FEATURES & BENEFITS
• Full automatic indoor tracking system / real time localisation.
• Guard Tour patrol management.
• Job Ticketing Task Management.
• Lone Worker / Man down safety.
• Enhanced staff – radio – group management.
• Visual and audible alarm on PC, the emergency facility is combined with location so you will know the location of the radio in alarm and also the technical alarm.
• Group management, Dynamic group management, Temporary workers.
• Geo-fencing.
• Status Management.
• Enhanced radio - staff management.
• Multi floor layout Maps.
• Text messaging SMS.
• Audible & Visual Alarm on Supervisor.
• Management of users & their rights.
• Networking: several Supervisors on IP.
• Full traceability.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO DP4XXX.

Computer Hardware / Operating Systems
PC Windows Seven Pro, IP, USB, sound.

MOTOTRBO System Architecture
MOTOTRBO System Architecture: Capacity+ recommended, Conventional, IPSC, LOP+, NAI Data, CSBK.

MARKETS
Shopping Centres, Bank, Leisure Centres.

DISTRIBUTION
EMEA

LANGUAGES
English, French.

FIND OUT MORE
WEB: www.telecoms.eiffageenergie.com

ALSO FROM EIFFAGE
DMRAalert® STREET  DMRAalert® GT  DMRAalert® TAD  DMRAalert® ENTERPRISE
DMRAlert® STREET

DMRAlert® STREET is a fleet management and location tracking application ensuring security for outdoor fleet. It allows users to track GPS enabled MOTOTRBO radio fleet throughout a designated area down to street level. The event log will detail the street names allowing quick reference and easier identification of the users location. The application uses Microsoft MapPoint to display the GPS locations.

DMRAlert® STREET facilitates the management of teams, groups, agents or vehicles. Users are immediately notified in emergency situations which, as a result, speed up the response time.

With also the possibility to create activity reports, DMRAlert®STREET is particularly well suited for Police Forces, Transportation or Hospitality.

SYSTEM REQUIREMENTS
- Radio Hardware / Releases Compatibility: MOTOTRBO.
- Computer Hardware / Operating Systems: PC Windows Seven Pro, IP, USBs, sound.
- MOTOTRBO System Architecture: Conventional, IPSC, CAPACITY+, LD, NAI Data, CSBK and Single CSBK.

KEY FEATURES & BENEFITS
- GPS location tracking of MOTOTRBO radios.
- Emergency and Alarm Management; sound and visual alerts, notification reports.
- Easy creation of detailed reports down to street addresses and the address nearest to the person and vehicles, search/management by areas.
- MapPoint, Raster, WGS84, Google™, IGN.
- SMS messages.
- Full history of the events.
- Electronic book.
- Access rights management.
- Automatic management of radio fleet and groups.
- Client / Server solution.
- Remote activation / deactivation and listening.
- Email to radio SMS, personalised reports, telemetry.

FIND OUT MORE
WEB: www.telecoms.eiffageenergie.com

ALSO FROM EIFFAGE
DMRAlert® INTRACK | DMRAlert® ENTERPRISE | DMRAlert® GT | DMRAlert® TAD
The DRC9010 PC is a control console for MOTOTRBO radio devices providing a comprehensive set of functions for the control of single devices or radio fleets. From this workstation up to four radio devices can be controlled. The DCR9010 governs speech events and TMS – messages (Text Messaging Service) for individual subscribers or groups. Customisation for special performance requirements is available on request.

In addition to the classic operation of one or more control center radio sets for radiotelephony and short texts, the GPS positions supplied by the radio sets are processed. Via a separate window, the dispatcher is informed at any time about the actual configuration of the groups and their current status. Using this list, he can directly communicate to the right subscribers and groups.

DRC9010 provides location and visualisation of the radio fleet and enables communication of tasks via “CallOut”. It also has software statistics and history functions. In case of major events a “mobile control station” can be installed.

**SYSTEM REQUIREMENTS**

- **Radio Hardware / Releases Compatibility**
  MOTOTRBO DM3xxx series.
  If special features e.g. CallOut, RemoteControl, Homedispaly are required, need to activate licence in the infrastructure.

- **Computer Hardware / Operating Systems**
  Recommended: HP Hardware 19“ HP Z series / individual HP Proliant series.
  Windows 7 (32 bit / 64 bit) or higher.
  Windows 7 Embedded.

- **MOTOTRBO System Architecture**
  Single Site, IP Site Connect, Capacity Plus, Linked Capacity Plus.

**Other Requirements**

Recommended: HP Hardware 19“ HP Z series / individual HP Proliant series. Min. Intel Core i5. 4 Gb RAM. Min. 500 Gb Festplatte (RAID1). Dual Head, Graphic card minimum 1Gb (nonshared RAM).

**KEY FEATURES & BENEFITS**

- Control of several central office radio devices.
- Administration of single and group calls.
- List for administration of organisations, groups and individual subscribers.
- Dispatch and receipt of text messages.
- Dispatcher functions with status indication.
- Emergency call functionalities.
- Chronological lists regarding speech events and TMS.
- Man Down/Tilt switch.
- Alarm.
- CallOut administration.
- Optional extras: AVL/GIS system for map display, CallOut administration (optionboard DMR910 with CallOut Option is necessary).
EZTRACKER®
TRBO™
SIMPLE AVL FLEET TRACKING AND TEXT MESSAGING

eztracker@trbo™ is an application to monitor a fleet using OpenStreetMaps and contact it via text messaging. ezcstation@trbo™ answers the requests of many customers that are interested in locating their subscribers, without requiring a dedicated server or workstation thus minimising the overall operational costs. It does not require any additional option board or hardware components. ezcstation@trbo™ is an entry level fleet tracking and messaging application that brings simplicity of deployment, management and use. It is ideal for situations that require a basic answer to the question “where are my assets now, where have they been and can I exchange text messages with them?”.

eztracker@trbo™ allows to:
• Visualise the individual position of each radio.
• Monitor if vehicles are heading into traffic and reroute them appropriately.
• Log the location of all assets and play them back.
• Text individual or group of radios.
• Reply or forward messages.
• Maps sharing: users can track the fleet from their browsers or using remote management tools.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
Any Motorola MOTOTRBO radio with firmware 1.08.32 and up. Motomedia NAI Data wireline interface.

Computer Hardware / Operating Systems
MS-Windows XP / Vista / 7 / 8 PC with 1.5GHz CPU and 1GB RAM, DSL-class internet connection (not required for text messaging).

Interfaces
USB for control stations or Ethernet for NAI Data repeater interface. Ethernet for network access.

MOTOTRBO System Architecture
Simplex, Conventional repeater, IP site connect, Capacity Plus, LCP, Enhanced GPS.

Other Requirements
Besides MOTOTRBO CPS programming, basic networking and PC installation skills.

KEY FEATURES & BENEFITS
• Support for NAI Data repeater interface.
• Displays up to 200 subscribers.
• Uses ARS for active radio presence.
• OpenStreetMaps mapping.
• Different views and zoom levels.
• Displays radio position, street address, speed, direction and altitude.
• Periodic or immediate location refresh.
• Set period update time for individual radios.
• Radio name aliasing.
• Highlight and center a selected radio on the map.
• Text a talkgroup or an individual radio.
• Log all messages, and reply or forward them.
• Excel-compatible raw GPS data logs (CVS format).
• Rapid deployment.

FIND OUT MORE
DATA SHEET:  www.tabletmedia.com/eztracker@trbo.pdf
MANUAL:  www.tabletmedia.com/wt/eztracker@trboGuide.pdf

ALSO FROM TABLETMEDIA
text@trboplus  webtracker@trbo  phone@trbo  text@trbo
HERMESTRX
PROFESSIONAL FLEET MANAGEMENT SYSTEM FOR MOTOTRBO

hermesTRX is a real-time Outdoor Positioning and GPS fleet management system using various mapping platforms including Google Earth. It is configurable through a built-in web server to track and manage vehicles or personnel assets by GPS enabled MOTOTRBO radios. In addition to the location service, a text messaging and email facility are available, as well as the processing of telemetry information. It is available in a number of versions depending on the quantity of subscribers to be tracked – versions are available to track between 20 and 500 subscribers.

hermesTRX now also offers Geo-Fencing, the integration of various digital mapping platforms and direct connectivity for up to 24 MOTOTRBO base radios.

hermesTRX is a truly plug and play system and is very intuitive to set up. Designed as a modular solution, it enables users to upgrade the system with new features or functions. The solution is fully integrated with the hermesTRX Man Down solution further enhancing the safety of the workforce, as well as the Motorola Man Down based on the Generic Option Board.

HERMESTRX INFRASTRUCTURE

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
All MOTOTRBO Portables.

Interfaces
hermesTRX is hardware, which fits between the customer’s LAN and the MOTOTRBO network. In order to integrate this application, only MOTOTRBO and Ethernet cables are required.

Computer Hardware / Operating Systems
Compatible with operating systems like Windows 7, Vista, XP, OSX, ipad and Linux.

MOTOTRBO System Architecture
IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus.

Other Requirements
hermesTRXplus is hardware, which fits between the customer’s LAN and the MOTOTRBO Connect plus Controller. In order to integrate this application, only Ethernet cables are required. There are no complex drivers, databases etc to be installed. A normal web browser to set up and use the system is all that is required.

KEY FEATURES & BENEFITS
• GPS Outdoor Positioning.
• Build-in Web Server for Browser based Operation.
• Multi User Access and Remote Facility.
• ARS, Telemetry, Job-Dispatching, Emergency Email.
• Recording and Playback.
• hermesTRXplus supports MOTOTRBO Connect Plus.
• No monthly recurring investment costs (opex).
• Comes with a detailed user set-up manual and example GPS files and associated software.
• No monthly recurring investment costs (opex), no costs associated with software, map licences or monthly recurring fees.
• Flexible Mapping Engine, uses the most up-to-date mapping platform, which is free of charge.
• Voice Dispatching for multiple users.
• User-friendly interface.
• Geo-Fencing.
• Supports MOTOTRBO ‘Enhanced GPS’.
• A standard web browser is all that is required to set up and use the system. There are no complex drivers, databases etc to be installed.
• Flexible Mapping Engine provides the option of choosing OpenStreetMap, ESRI, Google™ Earth or any customer raster or vectorial tab format maps.
• Reverse Geocoding allines to convert GPS coordinates into street addresses.

FIND OUT MORE
WEB: www.hermestrx.com/?page_id=658

HERMESTRX LATEST ENHANCEMENT IS HERMEXTRXPLUS FOR MOTOTRBO CONNECT PLUS WHICH CAN DIRECTLY CONNECT TO THE XRC 9000 CONTROLLER AND CAN BE CONFIGURED FOR MULTIPLE SITE OPERATIONS.

MARKETS

DISTRIBUTION
Worldwide.

LANGUAGES
English, German, French, Spanish.

DEVELOPER
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SUPPORT
Languages: English, German.

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H: 09:00 – 17:00 CET

PRICE
hermesTRX starts from €399,00 plus options.
Contact the developer to receive the dealer price list and information on hermesTRXplus.

DEMO SYSTEM
Online demo available at www.microcom.biz with the following credentials:
User: admin
Password: 123456

ORDER/SHIP CYCLE TIME
3 working days.

FIND OUT MORE
WEB: www.hermestrx.com/?page_id=658

ALSO FROM HERMES MICROCOM
hermesTRX Indoor & Outdoor  hermes Man Down
HERMESTRX INDOOR & OUTDOOR

HERMESTRX INDOOR & OUTDOOR WITH BOTH INDOOR TRACKING AND WIDE AREA GPS POSITIONING, HERMESTRX ALLOWS A DISPATCHER TO TRACK AND MANAGE ASSETS AND STAFF THROUGHOUT BUILDINGS AND OUTDOORS SEAMLESSLY.

MARKETS

DISTRIBUTION
Worldwide.

LANGUAGES
English, German, French, Spanish.

HERMESTRX INDOOR & OUTDOOR

INDOOR & OUTDOOR POSITIONING SYSTEM FOR MOTOTRBO

HermesTRX Indoor & Outdoor is a real-time indoor positioning and GPS fleet management system using various mapping platforms including Google Earth. It allows a dispatcher to track and manage vehicles or personnel assets by GPS-enabled MOTOTRBO radios. The maximum number of subscribers that are traceable at the same time depends on version, but is typically between 20 and 500 subscribers. It delivers an overview of the location and status of assets: outdoors using GPS, and indoor utilising HermesTRX beacons transmitting a unique ID. Indoor tracking relies on the installation of beacons throughout the various areas of a building or large complex, and fitted inside the MOTOTRBO radio is a transponder indoor option board, which also includes Man Down functionality. A dedicated floor plan upload interface allows users to display floor plans and place beacons on the dispatchers’ screen – which also includes a display of emergency situations. Configurable through a built-in web server, it is a true plug-and-play professional system, easy to set-up, also enabling users to upgrade to new features such as the HermesTRX Man Down solution, as well as the Motorola Man Down function based on the Generic Option Board.

HERMESTRX INDOOR & OUTDOOR INFRASTRUCTURE

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
All MOTOTRBO Portables.

Interfaces
hermesTRX is hardware, which fits between the customer’s LAN and the MOTOTRBO network. In order to integrate this application, only MOTOTRBO and Ethernet cables are required.

MOTOTRBO System Architecture
IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus.

HERMESTRX - INDOOR & OUTDOOR INFRASTRUCTURE

KEY FEATURES & BENEFITS
• Indoor and outdoor positioning.
• Built-in web server for browser based operation.
• Multi-user access and remote facility.
• ARS, Telemetry, Job-Dispatching, Emergency Email, Recording and Playback.
• Voice Dispatching for multiple users.
• Geo-Fencing.
• Comes with a detailed user set-up manual and example CPS files and associated firmware.
• No monthly recurring investment costs (opex), no costs associated with software, map licences or monthly recurring fees.
• Flexible Mapping Engine, uses the most up-to-date mapping platform which is free of charge.
• Supports MOTOTRBO ‘Enhanced GPS’.
• User-friendly interface.
• A standard web browser is all that is required to set up and use the system. There are no complex drivers, databases etc to be installed.
• Flexible Mapping Engine provides the option of choosing OpenStreetMap, ESRI, Google™ Earth or any customer raster or vectorial tab format maps.
• Reverse Geocoding allows to convert GPS coordinates into street addresses.

FIND OUT MORE
WEB:  www.hermestrx.com/?page_id=914

ALSO FROM HERMES MICROCOM
hermesTRX Enterprise | hermes Man Down
KOLIBRI
VERSATILE AND MODULAR CONTROL ROOM SOLUTION

Kolibri is a scalable control room solution for dispatch, map-based tracking and telephony well suited to a variety of markets. Kolibri is a multi-radio platform solution and provides easy integration with telemetry, indoor positioning, video surveillance, incident management systems and other systems.

Kolibri connects to the radio network using an IP-wired interface or over the air using a pool of shared radios. The tracking functionality enables instant situational awareness thanks to a comprehensive geographical overview of the fleet with quick identification and tracking capabilities. Plus many other functions such as geo-fencing and remote control. Kolibri is a fully Computer Aided Dispatch (CAD) solution which effectively manages radio connections and communications with the field through a multitude of call capabilities.

Kolibri is an off-the-shelf product, highly configurable to adapt to any customer situation or process. It is suitable for all sizes of installations that connect to a single radio network or a multitude of radio networks and when required, the system can be extended with extra functionalities and add-on modules.

KOLIBRI INFRASTRUCTURE

KOLIBRI CAN WORK WITH THE OPERATIONS AND PROCESSES OF ANY MODERN CONTROL ROOM. WITH SCALABLE OFF-THE-SHELF AND HIGHLY CUSTOMISABLE FUNCTIONALITIES, KOLIBRI BRINGS THE STRENGTH OF DIGITAL COMMUNICATIONS TO EVEN THE SMALLEST CONTROL ROOMS.

MARKETS
Logistics, Public Safety, Public Transport, Museums, Government Institutes, Security companies, Hospitals, Public Events, Production plants.

DISTRIBUTION
Europe, Latin America, Africa, Asia.

LANGUAGES
English, Spanish, French, German, Danish, Brazilian Portuguese, Dutch.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO radio network with stand-alone or multiple repeaters.

IP Technology
Either IP line connection with radio network infrastructure, or radio connection.

MOTOTRBO System Architecture
Conventional, IP Site Connect, Connect Plus, Linked Capacity Plus.

Other Requirements
Knowledge of Kolibri, IP Infrastructure, Windows OS.

SYSMEX
KOLIBRI USER INTERFACE

KEY FEATURES & BENEFITS
• Enables communication with field staff through a multitude of call capabilities. Centralised or geographically dispersed control rooms are supported.
• The dispatch and tracking functionalities are fully integrated with each other, e.g. simply click on a radio icon shown on the map to initiate a group or private call.
• Full IP based solution: all voice, audio and signalling information is transported over an IP layer, enabling all IP advantages and Windows support capabilities.
• Also available as a wireless, a hybrid solution or a fully wired solution.
• Scalability: from single console to redundant multi-node WAN configuration.
• Any language can be supported. Currently available in English, Spanish, French, German, Danish, Brazilian Portuguese and Dutch.
• Enterprise logic and customisable GUI supports common radio protocols and overviews.
• Available add-ons and custom developments for multiple radio networks, network enhancements, redundancy options, connection of external systems.

FIND OUT MORE
WEB:  www.kolibri-systems.com
ALSO FROM KOLIBRI SYSTEMS
Kolibri Logging System
KOLIBRI LOGGING SYSTEM

LOGGING VOICE & ALL OPERATIONAL DATA – GPS, IPS

Whether it is for supporting reporting, replay, training purposes or incident investigations, Kolibri is able to log all operational data and to replay all logged information in a user-efficient way.

Being part of the Kolibri Control Room Suite, Kolibri Logging System can either be deployed as a stand-alone module or as part of a complete Kolibri Control Room solution.

Kolibri Logging System enables any type of information to be logged: voice, all user activity, GPS position information and if an IPS is in place, all indoor positions. The application is radio network independent meaning it can be used in combination with a single radio network or to log information of several radio networks at the same time. The logging system also includes the KoliReplay module which provides an easy to use client to replay the logged voice and GPS data. All logged data is protected against modifications and the KoliReplay tool is password protected to prevent unauthorised use.

KEY FEATURES & BENEFITS
• Supports TETRA, DMR and Analogue radio networks.
• Fully IP based: the Kolibri Logging System and the KoliReplay application can be located anywhere.
• Logs all types of calls: group calls, private calls, Radio to Radio.
• Logs all operational data: text messages, radio location positions, indoor tracking (IPS).
• SIP support.
• External interface support.
• Reporting.
• Protection of data against unauthorised use.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO radio network with stand-alone or multiple repeaters.

IP Technology
Either IP line connection with radio network infrastructure, or radio connection.

MOTOTRBO System Architecture
Conventional, IP Site Connect, Connect Plus, Linked Capacity Plus.

Other Software
KoliReplay.

Other Requirements
Knowledge of Kolibri, IP Infrastructure, Windows OS.

MARKETS
Logistics, Public Safety, Public Transport, Museums, Government Institutions, Security Companies, Hospitals, Public Events, Production Plants.

DISTRIBUTION
Europe, Latin America, Africa, Asia.

LANGUAGES
English, Spanish, French, German, Danish, Brazilian Portuguese, Dutch.

KOLIBRI LOGGING SYSTEM INFRASTRUCTURE

KOLIBRI LOGGING SYSTEM USER INTERFACE

FIND OUT MORE
WEB:  www.kolibri-systems.com

ALSO FROM KOLIBRI SYSTEMS
Kolibri
MIMER SOFTRADIO
CONNECTING RADIOS ALL OVER THE WORLD

Mimer SoftRadio is a dispatch software application with remote VoIP technology and logging functions for all types of two-way radio users. Together with network interfaces for different types of radios it connects any radio to IP. The system works both over local LAN and over the Internet with the audio as VoIP. This is a perfect solution for small or medium size dispatch centers with a mix of radio systems and a mix of local and remote radios.

Mimer SoftRadio gives the dispatcher virtual control heads for each radio type, giving the feeling of “sitting in front of the radio”. The dispatcher has full control of the radios keypad and its display. The dispatcher can mix analogue radios with Tetra and MOTOTRBO. Even intercoms and phones can be mixed in the same system.

Each radio dispatcher can handle up to 8 or 30 radios, depending on software size, at the same time on his computer. And each radio can be controlled by up to 99 dispatchers in parallel. Larger versions are also available.

KEY FEATURES & BENEFITS
• Using virtual control heads for each radio type, giving the feeling of “sitting in front of the radio”.
• Easy to deploy.
• Radio infrastructure independent.
• Works on LAN/WAN/Internet.
• Scalable from 1-100+ operators, 1-100+ radios.
• Analogue/DMR/Tetra.
• Cross Patch between systems.
• Phone Connect.
• Voice Recorder.
• Remote I/O:s.
• Speed dial/text list.
• Call Logging.
• 5-tone/MDC/DSC/DMR.
• Multi language.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
DM4600, DM4601, DM4600, DM4601 and their equivalents in other regions.

Computer Hardware / Operating Systems
Standard Windows PC with XP, Win 7, Win 8, Ethernet connection, audio card, microphone and speakers or headset.

Interfaces
A basic system needs one software license per PC and one network interface per radio.

MOTOTRBO System Architecture
The network interface connects to a mobile radio, so it will work with any type of infrastructure.

Other Requirements
Dealer should have good knowledge in both radio systems and PC-LANs.

MARKETS
Dispatch Centres for taxi and carrier, Alarm Control Centres, Public Safety Dispatchers, Airports, Industrial Control Rooms, Command and Control Vehicles, Ships, Offshore etc.

DISTRIBUTION
Worldwide (35+ countries)

LANGUAGES
English, Swedish, German, Polish, Korean, Danish and Turkish. Other languages can be added on-demand.

WEB: www.softradio.se/
FINDER: www.softradio.se/download.htm
MANUFACTURER: www.lse.se
SAFEDISPATCH
RADIO DISPATCHER, CONTROL ROOM, GPS-BASED AVL, TEXT MESSAGING, EMAIL & TELEMETRY, REPORTING

SafeDispatch™ is a client-hosted software solution designed for the MOTOTRBO and TETRA two-way digital radio system delivering effective management and monitoring of both personnel and mobile assets.

SafeDispatch V5.0 data application is a global solution with worldwide map coverage and multiple language capabilities. The benefit of SafeDispatch lies in the seamless integration of its modular components with MOTOTRBO radios. The application is built modularly, so users can choose any of the suites and build a perfectly fitted solution. Users can choose to deploy the GPS/AVL, Voice Dispatch, Text Messaging, Email, Telemetry and Enhanced Reporting Suites one at a time, or mix-and-match them.

The new SafeDispatch™ V5.0 is enhanced with a variety of location enabled features such as a live mapping interface that offers real-time 24/7 critical information about mobile assets around the world.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO 1.8.
IP Technology
TCP/IP Connectivity (LAN, WLAN, VPN).
Computer Hardware / Operating Systems
Operating System (s) Windows 7 Ultimate, No Media, 64-bit, English Processors 3rd Gen Intel® Core i7-3770 (Quad Core, 3.40GHz, 8MB w/HD4000 Graphics).
Memory 8GB, NON-ECC, 1600 MHZ DDR3, 2DIMM.
Removable Media Storage Device 16X DVD +/- RW SATA.
Bibt Hard Drives 1TB 3.5” SATA 6Gb/s with 32 MB Databurst Cache.
Graphics Cards 1GB AMD RADEON HD 7470, FH, w/VGA.
System Recovery Recovery Media for Windows 7 Ultimate, SP1, 64bit, Multiple Language.
Power Supply OptiPlex 7010 MT Standard PSU.
Low Power Mode 1 Watt ready low-power mode.

Other Requirements
Basic computer and Windows system knowledge.

KEY FEATURES & BENEFITS
- Client-Server Based (web-based solution is available).
- Embedded Radio Solution is sensor compatible.
- Customisable Interface and Multi-language Capable.
- Integrates with existing radio system.
- Integrates with Student Transportation Software.
- Advanced text messaging allows two-way SMS communication between a radio or group of radios.
- Voice Dispatch: voice call (Private, Group and All Calls) direct to any Radio. Emergency Calls with remote DeKey (for select users).
- Send and receive e-mail messages to your radios.
- GPS Suite: enhanced with a variety of location enabled features including Geo-Fencing and Landmarks.
- Telemetry Suite: visually recognise input/output status of all units at a glance.
- Reporting Suite: receive enhanced reports to analyse and make the most of data collected for all of your fleet vehicles.

MARKETS
Public Safety, Government, Transportation, Oil & Gas, Taxi and Limousine, Utilities, Public and Student Transportation, Private Security, Municipal Services, Emergency Services, Fleet Management

DISTRIBUTION
Worldwide

LANGUAGES
English, Russian, French, Spanish, German, Turkish, Arabic, Romanian, Czech, Chinese, Italian.

FIND OUT MORE
WEB: www.safemobile.com/solution-safedispatch-v50.php
FLYER: www.safemobile.com/data/solutions/1.NI_Brochure.pdf

ALSO FROM SAFEMOBILE
SafeNet | SafeDispatch Mobile | radioPad
SAFEDISPATCH MOBILE

MOBILE COMMAND & CONTROL CENTRE FOR ANDROID CELL PHONES AND TABLETS

SafeDispatch Mobile™ Software provides remote access to MOTOTRBO and TETRA radio fleets via IP networks and is designed primarily to function as an Android-based mobile dispatching centre, with a number of voice and data capabilities.

Various data points and voice communication can be exchanged between multiple Android cell phones from anywhere in the world, or tablets running SafeDispatch Mobile and your radios in the field.

When outside of the radio coverage area, SafeDispatch Mobile can still be used to communicate with the radio system and to remote monitor the radio channels via the IP network.

SafeDispatch Mobile™ software is compatible with SafeDispatch™ Desktop software and can also be used on the radioPad™ field units.

SAFEDISPATCH MOBILE PROVIDING AN EXTRA TOOL FOR THE FIELD COMMANDERS DURING MISSION CRITICAL SITUATIONS, SAFEDISPATCH MOBILE COMMAND AND CONTROL APPLICATION CAN HELP IMPROVE EFFICIENCY, COORDINATION AND RESPONSE TIMES.

MARKETS
Public Safety, Government, Transportation, Oil & Gas, Taxi and Limousine, Utilities, Public and Student Transportation, Private Security, Municipal Services, Emergency Services, Fleet Management

DISTRIBUTION
Worldwide.

LANGUAGES
English, Russian, French, Spanish, German, Turkish, Arabic, Romanian, Czech, Chinese, Japanese, Italian.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO 1.8.
IP Technology
SafeDispatch 4.0 or higher installed on client server.
Interfaces
Android 2.1 or higher.
Other Requirements
Basic computer and Windows system knowledge.

KEY FEATURES & BENEFITS
• Worldwide GPS Mapping on Google Maps.
• Real-time location information for personal and vehicle tracking.
• Integration of various customised location based services.
• Remote real-time access to your data and historical reports.
• Monitoring and controlling functions for field supervisors.
• Alarm management capabilities.
• Multiple language capabilities.
• Advanced text messaging allows two-way SMS communication between a radio or group of radios.
• Voice call (Private, Group and All Calls) direct to any radio or other radioPad/Pods. Emergency calls with remote DeKey (for select users).
• Send and receive e-mail messages to your radios from any Android cell phone or tablet.
• Variety of location enabled features including Geo-Fencing and Landmarks.
• Telemetry Suite to visually recognise input/output status of all units at a glance.

FIND OUT MORE
WEB: www.safemobile.com/solution-safedispatch-mobile.php

ALSO FROM SAFEMOBILE
SafeNet | SafeDispatch | radioPad

DEVELOPER
SAFEMOBILE
3601 E. Algonquin Road, #800 Rolling Meadows IL 60008 USA.
W: www.safemobile.com
T: (+1) 847 818 1649
E: sales@safemobile.com
SUPPORT
Languages: English, Russian, French, Spanish, German, Turkish, Arabic, Romanian, Czech, Italian, Japanese, Chinese.
T: (+1) 847 818 1649
E: support@safemobile.com
Contact Sales: David Rodriguez
Contact Service: Cristian Tanese

PRICE
$200 for 5 licenses
Available Suites:
VoiceDispatch, Text, Radio Controls, GPS, E-mail, Telemetry, Reporting.
Optional Services:
To request a quote, visit the developer website.

ORDER / SHIP CYCLE TIME
SafeDispatch Mobile™ is available from www.safemobile.com
SAFENET
CLOUD-BASED FLEET MANAGEMENT, GPS, AVL, TEXT MESSAGING, E-MAIL SOLUTION

SafeNet™ is a cloud-based software application that enables dispatchers to track their staff and mobile assets in the field while providing them the flexibility to monitor their business at the office or from any computer. SafeNet™ is very easy to use. Users only need to log on and enjoy the features offered by the application, including GPS Tracking with Google Maps, Historical Playback, Enhanced Reporting, Email and Unlimited Text Messaging. Subscribers log into a customised web page designated to their specific needs.

SafeMobile hosts, maintains and manages the system, installing and testing it on the spot to ensure everything is working properly to provide peace of mind. All updates and enhancements are provided automatically via web updates and are included in the annual maintenance package.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO 1.4

Computer Hardware / Operating Systems
Microsoft Windows XP Professional w/Service Pack 2.
CPU: Intel/AMD 1600 MHz or greater.
RAM: 1.0 Gb or greater.
Hard Drive: 40.0Gb or greater.
Ethernet Card: 10/100 LAN.
USB: USB 2.0 High Speed, Internet available.

Interfaces
TCP/IP connectivity (LAN,WAN,VPN).
MOTOTRBO System Architecture
Capacity Plus, Conventional, IP Site Connect & Connect Plus.
Other Requirements
Basic computer and Windows system knowledge.

KEY FEATURES & BENEFITS
• Web-based solution with Smart Phone access.
• Customisable Interface in any language.
• Integrates with Existing Radio System.
• Affordable Monthly Fee.
• Increased Field Personnel Safety.
• Improved Field Communications.
• Access Critical Fleet Information.
• Enhanced Emergency Response Communications.
• Automatic Updates & Enhancements.
• GPS Tracking & Monitoring Information.
• Text Messaging Gateway/Email.
• Voice Communication Management.
• SafePoint® – choose and name symbols for precise location.
• SafeGate® – customise boundaries with extreme detail.
• Event Logging & Alarm Notification.
• Comprehensive Reports.
SHORTTRACK GT

AUTOMATIC VEHICLE LOCATION APPLICATION

ShortTrack is AVL software for small/medium fleets designed to operate over a professional mobile radio (PMR) channel. ShortTrack supports the radio operator, granting the full situation awareness about fleet and force deployment.

ShortTrack keeps involved the radio operator in the decision loop, even in emergency conditions. Automatic management of the field information feedback and distance-based contact book sorting ensures an efficient fleet coordination.

Due to the variety of communication devices, ShortTrack can be integrated with existing radio network, localising only the terminals equipped with localisation hardware. User defined markers aid to define fixed radio station or specific points of interest. Using the TrackViewer application, it is possible to perform off-line track and path analysis. Integration with CCTV systems allows the direct control of the field.

ShortTrack is a cost effective solution for small/medium fleet and can be as simple as one single operator working with a stand alone laptop computer or a large control centre with several parallel operating positions, running on client server architecture. The native full integration with Codice voice and text dispatcher expands the system functions to a complete voice and data solution.
ShortTrack Live is AVL software for small/medium fleets designed to operate over a digital professional mobile radio (PMR) channel using MOTOTRBO radios with built-in GPS. ShortTrack supports the fleet coordinator, granting the full situation awareness about fleet and force deployment. ShortTrack Live keeps involved the fleet coordinator in the decision loop, even in emergency conditions.

ShortTrack Live is a one-click-install client/server application. User interface can be any modern javascript enabled web browser. Unlimited connections are allowed to the server, so fleet management can be managed using multiple devices at the same time: PC, tablet, smartphone, SmartTV…

ShortTrack is a cost effective solution for small/medium fleet and can be as simple as one single operator working with a stand-alone laptop computer or a large control centre with several parallel operating positions, running on client server architecture.

**SYSTEM REQUIREMENTS**
- **Radio Hardware / Releases Compatibility**
  - Any MOTOTRBO radio with built-in GPS enabled.
- **Computer Hardware / Operating Systems**
  - PC running Microsoft Windows® 8/7/Vista/XP2000 operating system.
- **Interfaces**
  - USB port for MOTOTRBO radios. Wired wireless ethernet card.
- **MOTOTRBO System Architecture**
  - Direct mode, IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus.

**KEY FEATURES & BENEFITS**
- AVL for small/medium size fleets.
- Headless client/server application. User interface can be any web browser, running on any device.
- Unlimited client number, sharing information.
- Auto complete contact list using Automatic Registration Service (ARS).
- Multiple live maps supported.
- Offline reports: direct KML export is suitable to perform off-line track and path analysis.
- Shared user defined markers and polygons aid to define fixed radio station or specific points of interest.
- External DBMS (SQL Server or MySQL) can be used to collect and export data to other system.
- Easy to use, zero day training.
- Affordable.
- Multiple base radio & GPS revert channel supported.

**MARKETS**
- Public Safety (Police, Ambulance, Fire Brigades), Rescue Services, Transportation, Industry market (Oil & Gas, Steel Industries …).

**SHORTTRACK LIVE**

**DISTRIBUTION**
- EMEA.

**LANGUAGES**
- Italian, English.
- Other languages on request.

**SHORTTRACK LIVE AUTOMATIC VEHICLE LOCATION APPLICATION**

**FIND OUT MORE**
- **WEB:** www.saitel.it
- **ALSO FROM SAITEL**
  - ShortTrack GT
  - TR80move
  - PHOENIX

**SUPPORT**
- Languages: English, Italian.
- **T:** (+39) 02 66 01 47 77
- **E:** support@saitel.it
- **H:** 09:00 – 18:00 CET

**PRICE**
- Solutions start at €500.

**DEMO SYSTEM**
- Time limited license is available for a full functionality demo.

**ORDER / SHIP CYCLE TIME**
- 1 business day.
SmartPTT Basic

DISPATCH, AVL AND VOICE RECORDING FOR SMALL SYSTEMS

SmartPTT Basic is a software dispatch application for small or middle-sized MOTOTRBO systems. SmartPTT is able to use either the digital functions of the MOTOTRBO radios or their analogue mode for a step-by-step migration to DMR. SmartPTT Basic provides effective fleet and task management and increases personnel safety via enhanced quality of subscriber monitoring.

The SmartPTT Dispatcher Console is a software application installed on a Windows-based PC, which can be located at any distance from the controlled radio networks. The Dispatcher Console connects to SmartPTT Radioservers via IP to perform dispatching functions. SmartPTT Basic Radioserver communicates to radio subscribers through the control stations (MOTOTRBO mobile radios), connected by USB and audio cables.

SmartPTT Basic is ideal as a simple solution for conventional systems without any repeaters. For larger systems, SmartPTT Enterprise is recommended.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO radios with firmware R1.8 or higher.

Computer Hardware / Operating Systems
Windows 7/8/ Server 2008, Intel Core i3 or higher, minimum 2 GB RAM, Sound card, no less than 12 GB available hard drive space.

Interfaces
USB, Audio, Ethernet.

MOTOTRBO System Architecture
Digital conventional, Analogue conventional (MDC 1200, Select 5).

Other Requirements
Monitor, microphone and speakers or headset for dispatcher.

KEY FEATURES & BENEFITS

• Gateway to the radio system via control stations
• Enhanced quality of subscriber monitoring in the network
• Simple, easy-to-deploy voice recording and dispatch solution
• Lone worker and geofencing to improve personnel safety
• Rapid response to emergency with rules and alerts

Standard Features:
• Radio Dispatch
• GPS Tracking
• Voice Recording
• Event Logging
• Text and Data
• Lone Worker
• Telemetry
• Fleet Management
• Job Ticketing

Optional Features:
• Telephone Interconnect
• Web Client
• Man Down
• Mobile Solutions

FIND OUT MORE

WEB: www.smartptt.com
FIND OUT MORE

FIND OUT MORE

WEB: www.youtube.com/smartptt

ALSO FROM ELCOMPLUS

SmartPTT Enterprise | SmartPTT Monitoring | SmartPTT File Transfer
SmartPTT ENTERPRISE

COMPLETE DISPATCH AND FLEET MANAGEMENT SOLUTION FOR MOTOTRBO SYSTEMS

SmartPTT Enterprise is a complete software solution to establish full control of subscribers in MOTOTRBO systems with a wide range of features and support for:
- Multi-site and multi-channel systems
- Trunking or pseudotrunking systems
- Advanced telephone interconnect
- Call bridging between different systems (analogue, digital, E&M).

SmartPTT Enterprise connects directly to MOTOTRBO repeaters via a combination of IP protocol and control stations acting as gateways, so it’s an ideal solution for IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus systems. In IP Site Connect networks, two-way voice and data calls are supported over IP. In Capacity Plus, Linked Capacity Plus and Connect Plus systems, two-way data operations are managed over IP using the Network Application Interface Data (NAI-D) and voice operations through control stations. The direct IP connection to repeaters supplements the use of control stations as gateway to radio systems, simplifying system deployment and minimising the costs. The Client-Server architecture of the application allows building dispatch systems consisting of multiple radio networks and dispatcher consoles.

SYSTEM REQUIREMENTS

Radio Hardware/Releases Compatibility
MOTOTRBO radios with firmware R1.8 or higher.

Computer Hardware/Operating Systems
Windows 7/8/Server 2008, Intel Core i3 or higher, minimum 2 GB RAM, no less than 12 GB available hard drive space.

Interfaces
Ethernet.

MOTOTRBO System Architecture
IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus, Standalone repeaters, Analogue systems (MDC1200, Select 5).

Other Requirements
Monitor, microphone and speakers or headset for dispatcher.

SmartPTT Enterprise demo is available for download:
SmartPTT Enterprise demo is 2 months demo license FREE.

DEMO SYSTEM
Detailed price list by request.

ORDER/SHIP CYCLE TIME
Available for standard subscription - 1 business day.

DEMO SYSTEM
Available for standard subscription - 1 business day.

CONTACTS
Contact: Anton Vasiljyev
H:
E:
t:
F:
T:

SmartPTT ENTERPRISE ARCHITECTURE

KEY FEATURES & BENEFITS
- Full-functional dispatch control over MOTOTRBO system to enhance performance of employees.
- Interfaces with radio system via IP connection to repeaters or through the control stations.
- Improved employee safety through GPS and Indoor tracking with geofencing.
- Most effective communications with Text Messaging, Job Ticketing and Telemetry.
- Call bridging between different systems (analogue, phone, digital, E&M).
- Highly customizable user interface.
- Optimized architecture to build effective dispatching system of any size and topology.
- Rapid and cost-effective system deployment.
- Increased system reliability with constant monitoring of infrastructure performance.

Standard Features:
- Radio Dispatch.
- GPS Tracking.
- Voice Recording.
- Job Ticketing.
- Event Logging.
- Text and Data Transfer.
- Lone Worker.
- Telemetry.
- Fleet Management.

Optional Features:
- System Monitoring.
- Telephone Interconnect.
- Indoor Tracking.
- Man Down.
- Web Client.
- Radio Network Bridging.
- Mobile Solutions.

FIND OUT MORE
WEB:
BROCHURE:
VIDEO:

SmartPTT ENTERPRISE

English, Russian.
Languages:
Slovak, Spanish, Turkish.

MARKETS
Power, Oil & Gas, Manufacturing
Facilities, Mining, Public Transportation, Public Safety, Emergency Services, Utilities.

DISTRIBUTION
Worldwide.

LANGUAGES
Arabic, English, French, German, Italian, Korean, Polish, Portuguese, Russian, Slovak, Spanish, Turkish.
TEXT@TRBO™
SIMPLE TEXT TO EMAIL GATEWAY

With text@trbo™ radios can send, receive and reply to emails as text messages. text@trbo™ was uniquely designed as a true middleware component: it is very easy to deploy, effective and can run unattended for years. Minimal configuration is required: users only need to enter the email server and the list of email addresses allowed to reach the radios and the application automatically detects control stations and subscribers.

Email is the most popular technology used as the conduit for work orders and alerts from fire alarms, machinery that requires attention and weather reports. It also allows to reach cell phone users via SMS.

text@trbo™ is deployed in hospitality with HotSOS, Guestware, StarGuest, etc. in hotels: JW Marriott, Hilton, Omni, Starwood, Hyatt, Sheraton, Intercontinental and other properties. Also deployed with building management system by IBM Maximo and others.

MARKETS

DISTRIBUTION
Worldwide.

LANGUAGES
English.
Other languages available upon request at no-extra cost.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
Any Motorola MOTOTRBO radio with firmware 1.08.32 and up. Motorola NAI Data wireline interface.

Computer Hardware / Operating Systems
MS-Windows XP / Vista / 7 / 8 PC with 1.5GHz CPU and 1GB RAM, email server (e.g. onsite MS-Exchange or offsite Google Apps, GoDaddy, etc.).

Interfaces
USB for control stations or Ethernet for NAI Data repeater interface. Ethernet for network access.

MOTORTRBO System Architecture
Simplex, Conventional repeater, IP site connect, Capacity Plus, LCP.

Other Requirements
Besides MOTOTRBO CPS programming, basic networking and PC installation skills.

KEY FEATURES & BENEFITS
• Increases employee productivity
• Messaging is inherently faster, more accurate and less obtrusive than voice communications
• Creates a mobile radio-email hotspot by running it on a notebook with a 3G card
• Messages are stored locally and forwarded again if the radio is unavailable
• Reliable HotSOS web services support replaces need for email servers
• Create tickets from the radio and update the status of rooms
• Private and group messages
• Unlimited number of radios and email users
• Support for up to 24 control stations
• Supports TLS/SSL encryption
• Unlimited message storage
• Control station or wireline repeater interface (data)
• Automatically starts with Windows
• Thin client with light CPU utilization
• Bounce back email notification
• Supports Job Ticketing capabilities of SL-series radios
• Supports mixed-mode ticketing on SL and XPR radios

FIND OUT MORE
DATA SHEET:  www.tabletmedia.com/text@trbo.pdf
QUICKSTART GUIDE:  www.tabletmedia.com/wt/text@trbo_quickstart.pdf
MANUAL:  www.tabletmedia.com/wt/text@trboGuide.pdf

ALSO FROM TABLETMEDIA
www.tabletmedia.com/text@trbo_plus
www.tabletmedia.com/webtracker/trbo
www.tabletmedia.com/phone/trbo
www.tabletmedia.com/text@trboTracker.pdf
TEXT@TRBO PLUS™

CONNECT PLUS TEXT TO EMAIL GATEWAY

With text@trboPlus™ radios can send, receive and reply to emails as text messages. text@trboPlus™ was uniquely designed as a true middleware component: it is very easy to deploy, effective and can run unattended for years.

It requires minimal configuration. Simply enter the email server and the list of email addresses allowed to reach the radios - it automatically detects the subscribers! text@trboPlus™ was specifically designed to support MOTOTRBO radios running on Connect Plus networks. It does not require any additional option board, control stations or hardware components.

Email is the most popular technology used as the conduit for work orders and alerts from fire alarms, machinery that requires attention and weather reports. It also allows you to reach cell phone users via SMS. text@trboPlus is widely used in the hospitality industry, deployed with HotSOS, Guestware, StarGuest, etc. in hotels such as JW Marriott, Hilton, Omni, Starwood, Hyatt, Sheraton, Intercontinental and other chains. It is also deployed with building management system by IBM Maximo and others.

MARKETS

DISTRIBUTION
Worldwide.

LANGUAGES
English. Other languages available upon request at no extra cost.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO radio with Connect Plus firmware 1.1 and up.

Computer Hardware / Operating Systems
MS-Windows XP / 7 / 8 PC with 1.5GHz CPU and 1Gb RAM, email server (e.g. onsite MS-Exchange or offsite Google Apps, GoDaddy, etc.)

Interfaces
Ethernet for network access.
MOTOTRBO System Architecture
Connect Plus.

Other Requirements
Besides MOTOTRBO CPS programming, basic networking and PC installation skills.

KEY FEATURES & BENEFITS
• Private and group messages.
• Unlimited number of radios and email users.
• Direct IP interface to XRC9000 controller.
• Supports TLS/SSL encryption.
• Unlimited message storage.
• Automatically starts with Windows.
• Thin client with light CPU utilisation.
• Bounce back email notification.
• Supports Job Ticketing capabilities of SL-series radios.
• Supports mixed-mode ticketing on SL and XPR radios.
• Increases employee productivity.
• Messaging is faster, more accurate and less obtrusive than voice communications.
• Suitable for work order management applications.
• Email can be used to reach cell phone users via SMS.
• Messages are stored locally and forwarded with multiple retries if the radio is unavailable.
• Bounce back email notification.
• No control stations required.

FIND OUT MORE
DATA SHEET:  www.tabletmedia.com/text@trboPlus.pdf
MANUAL:  www.tabletmedia.com/wt/text@trboPlusGuide.pdf

ALSO FROM TABLETmedia
text@trbo | webtracker@trbo | phone@trbo | extracker@trbo

DEVELOPER
TABLETMEDIA, INC.
3035 Scott Street, San Francisco, CA 94123 USA.
W:  www.tabletmedia.com
T: +1 (415) 567-8100
E: alexg@tabletmedia.com
Contact: Alessandro Gatti

SUPPORT
Languages: English, French, Italian.
T: +1 (415) 567-8100
E: support@tabletmedia.com
H: 07:00 – 20:00 PST
Contact: Mr. Bernard Shakey

PRICE
Software: From US $3,000 one time fee.

DEMO SYSTEM
Free trial software available.

ORDER/SHIP CYCLE TIME
Software: online download.
Activation code: within 48 hours.
Turnkey systems: 10 days.
**TRBOnet ENTERPRISE**

**ADVANCED DISPATCHER FOR ALL MOTOTRBO SYSTEM TOPOLOGIES**

TRBOnet Enterprise is a premium PC based client/server dispatcher software application for MOTOTRBO Capacity Plus, Linked Capacity Plus, IP Site Connect and Connect Plus.

The solution incorporates Geo and indoor positioning as well as text messaging, voice recording and telemetry processing. These features provide a complete overview of all station and unit activity for fast problem localisation, job assignment, control and documentation. All data is recorded continuously and stored for an unlimited period and can then be used for further investigation or growth planning.

It supports digital as well as analogue channels that could be helpful for clients during their migration period. It also makes response to emergency quick and effective, and can be used to link multiple agencies or departments at the touch of a button by the dispatcher. TRBOnet Enterprise can be connected to repeaters directly via IP without the need for any additional hardware (control stations).

**SYSTEM REQUIREMENTS**

- **Radio Hardware / Releases Compatibility**: MOTOTRBO radio with firmware 1.8 and above.
- **Computer Hardware / Operating Systems**: Windows 7 / Windows 8 / Windows Server.
- **Interfaces**: UDP/IP connection to repeaters or USB cable for Control Radios.
- **Other requirements**: PC experienced user.

**KEY FEATURES & BENEFITS**

- True IP Voice Dispatch Console.
- Vector or Raster Maps: Google Earth, OpenStreetMap, Shape, MapInfo.
- Access to the radio network via PC: Multi-user access to Radio Server.
- All channels supported: digital, analogue, MDC, SIP.
- Automation Features: Lone Worker, Stun Kill Passive Mode, Scheduled Text Messages, Email Gateway.
- Voice Communications Management & Voice Recording.
- Cross Patch.
- Intercom.
- Telephone Interconnect.
- ARS Functions + Status Monitoring.
- GPS Positioning on raster or vector maps.
- Telemetry In / Out Support.
- GeoFencing and Speed Control.
- Event Logging, Reporting.
- Data Expert Services.

**FIND OUT MORE**


**ALSO FROM NEOCOM**

TRBOnet Watch  TRBOnet Indoor  TRBOnet Job Ticketing
TRBOnet Job Ticketing System for SL Radios

TRBOnet™ Job Ticketing enables the ‘Job Ticketing’ feature for all MOTOTRBO SL radio users. TRBOnet Job Ticketing is an integrated ticketing system which allows dispatchers to create, assign and track job tickets through the radio network. When a radio user receives a task which is displayed in the MOTOTRBO Job Tickets menu (SL radios only), jobs can be accepted or declined by a simple one-button-click or by sending a predefined text message. TRBOnet Job Ticketing’s predefined response menu is extremely easy to use and job statuses are customisable meaning they can be adapted for the customer’s business. TRBOnet tracks the status of all tickets in real time and notifies the dispatcher if a ticket is about to be overdue.

Workers get an extremely easy control of their tasks with a simple predefined response menu while the Management gets a very effective and user-friendly tool to control business processes. At any time, the dispatcher knows who is working and on what, when the deadline is and how long the job actually took.

TRBOnet Job Ticketing User Interface

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO radio with firmware 1.8 and above.

Computer Hardware / Operating Systems
Windows 7 / Windows 8 / Windows Server.

Interfaces
UDP/IP connection to repeaters or USB cable for Control Radios.

MOTOTRBO System Architecture

Other Requirements
PC experienced user.

KEY FEATURES & BENEFITS
• Improves business processes.
• Automates job workflow to employees.
• Reduces voice traffic, system usage and reaction time.
• Maximum visibility on jobs.
• Available on SL radios and all full display radios.
• Real-time job tickets tracking.
• Job templates.
• Scheduled jobs (coming soon).
• Task control panel.
• Management Dashboard.
• Job tracking against a deadline.

Contact: Ivan Mikheev

Find out more
WEB: www.trbonet.com/JobTicketing.aspx
FIND OUT MORE

Also from Neocom
TRBOnet Enterprise | TRBOnet Watch | TRBOnet Indoor
WEBTRACKER@TRBO™

CLOUD-BASED AVL FLEET TRACKING

webtracker@trbo™ is a browser-based service to track radios. Its strength lies in reliability, the amount of reporting and alerting and the user management capabilities. It is a cloud-based system that interfaces to the radio networks via both the text@trboPlus™ gateway for ConnectPlus and iTalkie™/RG gateway for all other networks.

Customers can simultaneously support different type of radio networks and still see their subscribers on one single screen.

Built from the ground up as a cloud server it runs on Linux, it is fast, reliable and allows thousands of users.

Within the application, it is possible to create multiple accounts, each account has its own set of radios which can be assigned to one or more group (e.g. security, maintenance, etc.) and has multiple users assigned to each group or special access rights.

WEBTRACKER@TRBO™ ANSWERS THE REQUESTS OF MANY USERS THAT REQUIRE UBICUITOUS ACCESS, USERS WITH DIFFERENT ACCESS RIGHTS, AS WELL AS EXTENSIVE HISTORY, REPORTING AND ALERTING CAPABILITIES.

WEBTRACKER@TRBO™ SYSTEM REQUIREMENTS

Radio hardware / Releases Compatibility
Any Motorola MOTOTRBO radio with firmware 1.08.32 and up (1.1 for Connect Plus).

Computer Hardware / Operating Systems
MS-Windows XP / Vista / 7 / 8 PC with 1.5GHz CPU and 1GB RAM, DSL-class internet connection.

Interfaces
USB for control stations or Ethernet for NAI Data repeater or Connect Plus controller interface. Ethernet for network access.

MOTOTRBO System Architecture
Simplex, Conventional repeater, IP site connect, Capacity Plus, Linked Capacity Plus, Connect Plus, Enhanced GPS.

Other Requirements
Besides MOTOTRBO CPS programming, basic networking and PC installation skills.

SYSTEM REQUIREMENTS

Radio hardware / Releases Compatibility
Any Motorola MOTOTRBO radio with firmware 1.08.32 and up (1.1 for Connect Plus).

Computer Hardware / Operating Systems
MS-Windows XP / Vista / 7 / 8 PC with 1.5GHz CPU and 1GB RAM, DSL-class internet connection.

Interfaces
USB for control stations or Ethernet for NAI Data repeater or Connect Plus controller interface. Ethernet for network access.

MOTOTRBO System Architecture
Simplex, Conventional repeater, IP site connect, Capacity Plus, Linked Capacity Plus, Connect Plus, Enhanced GPS.

Other Requirements
Besides MOTOTRBO CPS programming, basic networking and PC installation skills.

WEBTRACKER@TRBO™ KEY FEATURES & BENEFITS

• No upfront investment.
• Comprehensive feature set.
• Simple to deploy.
• Accessible from any browser, iPad and smartphone.
• Simple business model: one-time setup fee and nominal annual per radio fee - gateways, support and maintenance included.
• Desktop-like UI with drop-down menus.
• OpenStreetMaps or Google with traffic.
• Maps of groups or individual radios.
• Animated breadcrumbing.
• Center maps on radio.
• Easy-selectable reporting range.
• Several pre-defined reports.
• Customisable reports.
• Unlimited geofences and geocorridors.
• Flexible and extensive rule-based alerts engine.
• Messaging via email.
• Ready for additional car telematics.
• Export options: Excel, XML, SOAP, etc.
• Multiple foreign languages supported.

WEBTRACKER@TRBO™ INFRASTRUCTURE

WEBTRACKER@TRBO™ WEBTRACKER@TRBO™ INFRASTRUCTURE

WEBTRACKER@TRBO™ DATA SHEET: http://tabletmedia.com/webtrackeratrbo.pdf

WEBTRACKER@TRBO™ MANUAL: http://tabletmedia.com/wt/webtrackeratrboUserGuide.pdf

WEBTRACKER@TRBO™ ALSO FROM TABLET MEDIA

ZONITH R2R
RECORDING™

RECORDING FOR RADIO-TO-RADIO AND PHONE-TO-RADIO TRANSMISSIONS

Radio-to-Radio Recording (R2R) provides customers with additional use of the data gathered from their radio transmissions. The R2R Recording solution allows network administrators to record, log and playback any group call on MOTOTRBO two-way radio networks. More importantly, this application allows users to record both radio-to-radio and phone-to-radio conversations. The application is very versatile and can monitor both Local and Wide Area Channels. Accessing the radio data is easily done via the intuitive desktop application. R2R never records dead air which makes listening to playbacks time efficient. Data is properly logged with detail information to make finding the information easy and effortless.

By recording their radio conversations, companies can later use this information to:

- Increase Customer service assurance by reviewing response actions to client requests.
- Improve training with the use of real-life material and examples.
- Minimise their legal liability by reviewing the radio recordings of specific incidents.
- Significantly improve accountability by reviewing the response of specific workers or talk groups.
- Enhance audit trails with the audio data of radio-to-radio and phone-to-radio communications.

KEY FEATURES & BENEFITS
- Intelligent recording: no dead air is ever captured.
- Files are saved in .wav format for easy download and playback.
- Detailed logging information (Channel IS, time and date stamp, file size).
- Records 1000’s of hours of audio that can be pushed for backup for archiving and safekeeping.
- Local and Wide Area Channel recording for a flexible solution.
- Intuitive interface for simple navigation.

SYSTEM REQUIREMENTS
Radio hardware / Releases compatibility
1 DM3600 or DM4800 series mobile radio per radio channel and/or radio talk group to be recorded. Radio firmware version 1.09.00 or greater.

Computer Hardware / Operating Systems
PC Dual-core 2GHZ CPU or higher, 4Gb RAM, Windows 7 Professional 32 or 64 bit or Windows 8 Professional 32 or 64 bit, 10/100/1000 Ethernet LAN, PCI-E slots for Sound Cards per recorded channel/talk group.

MOTOTRBO System Architecture

FIND OUT MORE
WEB: www.teldio.com/products/r2r/

also from zonith
Man Down Notifier | RBX-Plus | Indoor Positioning System | Alarm Control System Plus | GPS | Centralized Lane Worker
SAFETY

Protect personnel working alone or in hazardous environments with a variety of safety solutions. The “Man Down” application automatically notifies dispatch if the radio falls at a specific angle or if there is no radio activity for a pre-determined amount of time, ensuring workers can get assistance even when they are unable to call for help. For indoor personnel monitoring where GPS won’t work – such as shopping malls or manufacturing plants – new technologies are available to locate and dispatch the closest person, providing better customer service, optimising the use of resources and enhancing safety. Automated alarm management instantly alerts the right person in the event of an incident such as an electrical fault, mechanical failure, fire or panic alarm by sending a text message to a user’s MOTOTRBO radio.

Alarms can be acknowledged and deactivated remotely to reduce unnecessary callouts and data can be stored for historical reference.
B-AQUASAFE

AUTOMATIC MAN-OVER-BOARD ALARM SYSTEM WITH GPS POSITIONING FOR MARITIME PERSONNEL SAFETY

B-AQUASAFE is an automatic man-over-board alarm system for the safety of personnel working at sea. The system relies on a water sensor which is attached to the radio terminal and fitted to the life jacket. For small isolated installations, the system can operate in DMO mode and when operating with a repeater a Central Alarm Unit can be integrated in the solution.

When the sensor is submerged in water, it automatically generates an alarm message which is transmitted to other terminals, stating the alarm type and the identity of the terminal issuing the alarm.

The Central Alarm Unit can receive water alarms from the entire radio network, dispatch the alarm as email or SMS alarm messages to defined PC's and mobile smartphones. In addition, it can monitor the GPS position of the terminal generating the alarm which can greatly reduce rescue response time. It is also possible to display the GPS position of the device that triggers the alarm on a digital map.

The Alarm Unit can also run system checks to ensure that the B-AQUASAFE system works in accordance with specifications and thereby continuously protects the staff in the most safely way.

SYSTEM REQUIREMENTS

**Radio Hardware / Releases Compatibility**
- DP34xx/36xx and DP4xxx series terminals.

**Computer Hardware / Operating Systems**
- Touch Screen PC.

**Interfaces**
- MOTOTRBO Telemetry.

**MOTOTRBO System Architecture**
- Direct mode terminals, single base station and IP-Site Connect, Capacity Plus and Linked Capacity Plus.

**Other Requirements**
- MOTOTRBO radios and familiar with the CPS.
- A programming guide for the B-AQUASAFE is available.

KEY FEATURES & BENEFITS

- Radio communication and security in the same unit.
- Can be used in both salt and fresh water with no need for calibration (self-calibrating).
- Water sensor does not need a separate battery.
- Water sensor is impervious to rain. The alarm will not activate, even during heavy rain.
- Custom life jacket with radio pocket.
- Can send alarm directly to the rescue center by SMS.
- Sends alarm to colleagues via radio terminal.
- Alarming terminal sends the GPS signal.
- The alarm unit has a built-in, safety tested, interactive touchscreen.

B-AQUASAFE INFRASTRUCTURE

MARKETS
- Maritime Industry - Aquaculture, Offshore Wind Farms, Ports, Shipping, Fish Farming, Coastal Fishing Fleet.

DISTRIBUTION
- Worldwide.

LANGUAGES
- English. Alarm messages can be in local languages.

FIND OUT MORE

WEB: [www.datamatik.no](http://www.datamatik.no)
DMR910 & DMR915

OPTION BOARD FOR MAN-DOWN, CALLOUT AND ISM-MODULE (RX/TX)

The option boards DMR910 and DMR915 expand the DP3000 and DP4000 MOTOTRBO radio series with advanced emergency call functions thanks to a Man Down and motion sensor. They can be used in a variety of situations to ensure safety and monitoring of lone workers such as security guards and prison supervision, plant security and security against theft of mobile properties.

The Man Down sensor recognises changes in state and motion. Both functions, which may be activated individually or combined, release the emergency call scheme as programmed in the device.

The option boards can be used in conjunction with the optional ISM function to deploy a guard control system. The option board receives signals from ISM beacons and transmits them as detected checkpoints to the Real-Time Guarding software RTG6000. These ISM beacons ISM762 from ATS Elektronik are built into the object. As they are either battery or electric operated, they are network-independent. As soon as an activated option board is within reach of an ISM beacon it receives its individual ID and automatically transmits it to the RTG6000.

DMR910 & DMR915

THese option boards expand the MOTOTRBO DP3000 and DP4000 radio series by adding advanced emergency call functions thanks to a man-down and motion sensor.

MARKETS

DISTRIBUTION Worldwide.

LANGUAGES
English, German.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO DP3400/01, DP3600/01 and MOTOTRBO DP4000 series.

IP Technology
PC with USB-Port, MS Windows XP, MS Windows 7.

Interfaces
For the DMR910: DMR9100 programming software and Motorola programming cable PMKN4012.
For the DMR915: DMR9150 programming software and Motorola programming cable PMKN4012B.

MOTOTRBO System Architecture
Single Site, IP Site Connect, Capacity Plus, Linked Capacity Plus.

KEY FEATURES & BENEFITS

- Man Down and motion sensor for motion and state recognition.
- No movement (motion alert).
- Theft alert in case of motion.
- ISM-Interface (889MHz) to Indoor-Radio-Localisation.
- Communication with guardiX-ISM.
- Real time guarding.
- Programmable function of Man Down and triggering angle.
- Pre-alert via radio loud speaker.
- Call out.
- Transmission of GPS position as a function of events (e.g. emergency call button).
- Special User Functions.

FIND OUT MORE
www.atsonline.de/de/downloads/produktinfoblaetter.html

ALSO FROM ATS ELEKTRONIK
DMR910 | DMR921 | GDPR21 | DMP321
DMRAlert® ENTERPRISE
COMPLETE SOLUTION FOR ENTERPRISE SAFETY

DMRAlert® ENTERPRISE is a complete dispatcher combining full automatic Indoor & Outdoor tracking, Guard Tour Patrol Management, Job Ticketing, Technical Alarm Dispatching, Lone Worker and Man Down Safety.

DMRAlert® ENTERPRISE allows the management of different teams such as technical, security and cleaners, with all radio movements being tracked and recorded throughout the site and stored on the server. Localisation is done via wireless beacons which are battery powered meaning no third party network is required, and GPS. In order to enhance the tracking performance, the option board offers different possibilities to upload information to the server.

Thanks to different connectors to most used Building Management Systems (BMC), Fire Alarm Systems and also single alarms, technical staff is immediately informed when an alarm occurs. Geo-fencing enables to check tasks are being completed and if not, generate an alarm, and also alarms users if an unauthorised radio is in detected in an area. The Job ticketing functionality enables the creation and dispatch of tasks, and provides a colour-coded report on the dispatcher interface showing the status and progress of tasks.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO.

Computer Hardware / Operating Systems
PC Windows Seven Pro, IP, USBs, sound.

MOTOTRBO System Architecture
Conventional MOTOTRBO, IP Site Connect, Capacity Plus, Limited Capacity Plus, NAI Data, CSBK.

KEY FEATURES & BENEFITS

• Full automatic Indoor & Outdoor Tracking system.
• Guard Tour Patrol Management (Beacon, RFID, Wireless/RFID) with email reporting allowing management of different types of tours.
• Intelligent Alarm Dispatcher: connects to most used building Management Systems, Fire alarm systems and hypervisors such as: ABB, Siemens, Chubb, Def, Wago, Iologics, Winsap, Intrus, PCVue, MicroSesame, Prysm.
• Alarms can be sent to radios, phone sets, SMS/GSM, email, relay outputs.
• All information (location of staff, technical alarms…) is displayed on a multi-screen & multi-floor layout Maps GUI.
• IVR included.
• Text to Speech: translates “data” to Voice.
• Acknowledgement, escalation, group management.
• Job Ticketing & Task Management: the different colours of the dispatcher show which tasks are accepted, in progress, late or terminated.
• Lone Worker and safety features on Option Board: Man down, Loss of movement, dual transmission of alarm, transmit interrupt. Enhanced transmission of indoor and outdoor locations.
• Manual launch alert (evacuation…).
• Dispatcher.
• Voice Recording MP3.
• Visual and audible alarm on PC, the emergency facility is combined with location so you will know the location of the radio in alarm and also the technical alarm on maps.
• Group management, Dynamic group management, Temporary workers.
• Enhanced radio management.
• Text messaging SMS.
• Management of users & their rights.
• Client / Server (IP).
• Full Traceability.

FIND OUT MORE
WEB:  www.telecoms.eiffageenergie.com

ALSO FROM EIFFAGE
DMRAlert® STREET  DMRAlert® INTRACK  DMRAlert® GT  DMRAlert® TAG
DMRAlert® GT
REAL-TIME GUARD TOUR PATROL MANAGEMENT

DMRAlert® GT is a full real-time Guard Tour Patrol Management solution featuring pre-defined patrol routes management and real-time staff location, for full automatic staff management with network back-up.

DMRAlert® GT application can be set up using 3 different devices: RSM/RFID, Wireless/RFID and Beacons. It is possible to combine the different devices to design customised solutions that will fit with any customer requirements. Whether utilising wireless beacon or RFID checkpoints, all checkpoints locations are logged and recorded in real-time with the MOTOTRBO radio ID.

The application can then deliver real-time information on the patrols on the customer map, along with alerts, voice tracking, etc, all backed up with full reports and statistical information. Detailed pdf reports of guard tours are created automatically and are sent to the board by email. The software offers 3 levels of tours monitoring, in order to maximize flexibility. A full automatic connection between GT and the radio is available to help the patroller and give him latest information regarding his tour at any time.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO, DP4xxx.

Computer Hardware / Operating Systems
PC Windows 7 PRO, IP, USB, Sound.

MOTOTRBO System Architecture
Conventional MOTOTRBO, IP Site Connect, Capacity Plus, Linked Capacity Plus, NAI Data, CSBK.

KEY FEATURES & BENEFITS
• Real Time Guard Tour Patrol Management.
• Devices: RSM or Wireless RFID reader, BEACON (mix possible).
• Lone Worker & safety management with Automatic dispatch of Alarm.
• Supervisor GUI: Multi floor layout maps.
• Management of Free, Programmed and Mixed patrols.
• GT to/from radio hand shake.
• Voice tracking on PC.
• Full Traceability – Statistics.
• Automatic Edition of Guard Tour report, transmission by Email.
• Text messaging SMS.
• Group management.
• Status management.
• Full Radio control: Activate/deactivate/listening to.
• Multi-PC: Client/Server Supervisor.

MARKETS
Safety, Security Services, Industry, Shopping Centres, DataCentres, Banks, Hospitals, Leisure industry, etc.

DISTRIBUTION
EMEA

LANGUAGES
English, French.
HERMESTRX MAN DOWN

GPS BASED MAN DOWN AND LONE WORKER SYSTEM FOR MOTOTRBO

hermesTRX Man Down is a hardware and software solution for MOTOTRBO portable radios that provides an effective Lone-Worker monitoring system. The hermesTRX Man Down solution is an important addition to worker safety programmes. It provides lone-workers and workers in hazardous environments with a mean to call for help in the event of emergency and automatically generates alarms in the event of a man down. The hermesTRX Man Down solution is extremely flexible and can be tailored to customer specific applications.

The hermesTRX Man Down board works ‘silently’ in the background enabling the user to utilise his portable radio as normal. Voice calls and data messaging are available just as before, however should the radio be placed at an ‘unusual’ angle, the radio will emit a pre-warning tone to the user. Should the user not correct the angle of the radio, the radio will automatically send out an emergency alert notification.

hermesTRX Man Down is fully integrated with the hermesTRX fleet management application or can also be deployed standalone.

SUPPORT
Languages: English, German.
T: (+49) 89 745 547-0
E: info@hermestrx.com
H: 09:00 – 17:00 CET

PRICE
Ask for dealer price list: info@hermestrx.com

DEMO SYSTEM
Online demo available at www.microcom.biz with the following credentials:
User: admin
Password: 123456

ORDER / SHIP CYCLE TIME
5 working days for Option Board and Software.
3 working days for Software for Motorola Generic Option Board.

FIND OUT MORE
WEB: www.hermestrx.com/?page_id=125

KEY FEATURES & BENEFITS
• Includes an option board which fits into the expansion slot of the MOTOTRBO radios.
• Man down software can be loaded on the hermesTRX option board or the Generic Option Board supplied by Motorola.
• Lone Worker.
• Man Down: radio automatically sends out an emergency alert notification.
• Hot Mike in case of emergency.
• Guard Control.
• Emergency voice call.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
All MOTOTRBO Portables.

MARKETS
Government and Enterprise,
Guard Control, Hospitality,
Education, Security, Military,
Utilities, Taxi, Courier,
Transportation, Manufacturing,
Power Utilities, Public Safety.

DISTRIBUTION
Worldwide.

LANGUAGES
English, German.
HERNING SAFETY LOC

COMPLETE SOLUTION FOR INDOOR SAFETY

Herning SAFETY LOC is a complete solution for indoor safety combining indoor localisation with active beacons and security, lone worker and man down applications.

The addition of an option card in the MOTORBO terminals can greatly increase their functionality. Herning SAFETY LOC is a set of firmware applications hosted on the option card. The option card has a beacon detection circuit (868 MHz ISM) providing a location address. This location address is sent to the Polyalerte application through the MOTOTRBO network, continuously or during guard tour and for specific events (man down, button press). Indeed, the application also provides detection of loss of verticality, alert of no movement, crash detect and a continuous testing of the radio link. A complete programming software and supporting documentation makes it easy to deploy the Herning SAFETY LOC application.

The solution includes battery-efficient ISM wireless beacons. The RFID tags can be read with an external Bluetooth reader. And the Polyalerte software manages the entire system: overview of location, broadcasting alarm voice messages, guard tour management in real time.

SYSTEM REQUIREMENTS

- Radio Hardware / Releases compatibility: MOTOTRBO from R1.08.00 (DP/DM3000) or R2.04.01 (DM/DP4000).
- Computer Hardware / Operating Systems: PC Windows XP / Vista / Seven / Win8.
- MOTOTRBO System Architecture: MOTOTRBO Analogue channel, Direct mode, conventional system, IP Site Connect, Capacity Plus, Linked Capacity Plus, Connect Plus.

KEY FEATURES & BENEFITS

- Real-time transmission or only when an alarm is raised of the location of the last beacon sensed.
- Optimisation in case of multiple beacons detection.
- Rapid transmission rate (150 or 300 ms): meaning a detection even if rapid transit terminal.
- ACK transmitted digitally with or without delay.
- Beacon adjustable range: 2 to 10 meters.
- Report Low battery detection beacon.
- Self-powered beacons (lithium battery, autonomy 3 years).
- Address of the beacon detected on the terminal display.
- Beacon test tools available.
- Updating firmware without disassembly via the GOBFlash utility.
- Compatible with TRBOnet Application Dispatcher and Polyalerte.
- Herning SAFETY LOC offers the same functionality as Herning SAFETY MD (loss of verticality, no movement, crash detect, loud bip location, positive security ...).

Polyalerte functionality

- Management of guard tour.
- Real-time visualisation of terminals location.
- Broadcast voice messages (alarm location, guard tour, on duty, ...).
- Multi system (DMR, TETRA, analogue).

FIND OUT MORE

WEB: www.herning.fr

ALSO FROM DATAHertz

Herning D.H.R. Telephone Gateway | Herning Safety M.D.
HERNING SAFETY M.D.

LONE WORKER SECURITY, LOSS OF VERTICALITY, MAN DOWN

The addition of an option card in the MOTOTRBO terminals can greatly increase their functionality. Herning SAFETY M.D. is a set of firmware applications designed for the security of lone workers. Hosted on the option card, Herning SAFETY M.D. applications include the detection of loss of verticality, no movement alert, free fall test and the radio link test.

A complete programming software including supporting documentation makes it easy to deploy Herning SAFETY M.D. applications. The applications are loaded on the option cards that are designed and manufactured by Motorola (PMLN5496AS (Dx3xxx) and PMLN5718AS (Dx4xxx)), ensuring seamless integration into the MOTOTRBO terminals and conformity with the RTTE, ROHS standards and Motorola recommendations such as temperature and reliability.

Optional RFID tag reader, external Bluetooth reader and beacon for indoor localisation are now also available.

SYSTEM REQUIREMENTS

Radio hardware / Releases compatibility
MOTOTRBO since version R1.08.00 (DP/DM3000) or R2.04.01 (DM/DP4000)

Computer Hardware / Operating Systems
PC Windows XP/Seven.

MOTOTRBO System Architecture
MOTOTRBO Analogue channel, Direct Mode, conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus

KEY FEATURES & BENEFITS

Available alarms:
• Loss of verticality adjusting cone angle, delay and early warning detection, alarm and text displayed, dynamic calibration power.
• No movement, timing, alarm and customisable text. Ability to associate the alarm conditions for the loss of verticality (logical AND).
• Sudden fall: detection of rapid acceleration. Possible to set the range of detection.
• Crash detect: Detection of rapid acceleration. Setting the window of the detection.
• Safe link test: verifications of the radio link with the security base and of the user activity. On the fixed terminal, a test function will signal if a radio is no longer reachable.
• Telemetry: three inputs can be managed and combined to trigger an alarm (e.g. opening safety deposit box and engine running).

Actions in response to alarm conditions:
• Emergency mode is enabled: no need to have computer equipment for alarm processing.
• A loud beep location may be issued to facilitate the search for the victim.
• A simulation of pressing a button allows a large number of possibilities (phone call, activation output telemetry etc).
• Compatible with TRBOnet Dispatcher and PolyAlerte.
• Firmware update without disassembly via the GOB Flash utility.
The K-TERM44 is an option board that can be fitted on the following radios: portable radios DP440x, DP460x and DP480x and mobile radios DM440x, DM460x and DM480x.

The following options are available on the K-TERM44 option board:
- Man Down sensor.
- Beacon receiver for in-house localisation.
- Select 5 decoding and encoding for special applications.

On analogue channels, the K-TERM44 is a select 5 decoding and encoding module with Man Down alarm functionality. On digital channels the following alarms can be set: Man Down, no movement, lone worker, telemetry input lines, manual alarm. It can be used for in-house localisation. Signals from beacons are detected (K-TERM70) and position is sent to the base.

Programming the functionality is easy thanks to the K-TERM CPS program. Once the option board is installed in the radio, and the radio attached to the PC with the Motorola USB cable, the CPS program allows users to set all parameters and save them in the option board. When a new option board firmware is released, it can be uploaded to the option board using the same CPS programme.
K-TERM70 BEACON TRANSMITTER FOR IN-HOUSE LOCALISATION

The K-TERM 70 beacon transmitter is used in in-house localisation systems. It transmits unique identifying information together with additional service information.

The beacon is configured with the K-TERM Set-up Programme which allows users to set up the transmission power level and the transmission interval. Depending on the mounting position, the range is reliant on the adjusted power level and is between 0.5 metres and 25 metres. The battery supports operations for up to three or more years, depending on the transmission settings and the type of battery installed.

The standard case is a robust ABS case which is IP65 approved. The mounting screws are outside of the electronic chamber.
TRBOMOVE
MAN DOWN/DEAD MAN OPTION BOARD FOR DP3000 AND DP4000 SERIES

TRBOMOVE is an option board providing man down and dead man features for portable MOTOTRBO 3000 and 4000 radio series.

Using a built-in 3-axis accelerometer, TRBOMOVE monitors radio movements and triggers an emergency procedure when abnormal situations arise. The man-down and anti-movement functions allow the users to programme alarms to generate emergency call if a radio remains unmoved or tilted for longer than the defined duration of time. Both functions can be used together or separately. The additional local alarm function facilitates finding a radio in a noisy environment.

TRBOMOVE provides advanced features for improving the safety of radio users who work alone, in isolated environments or hazardous areas. The option board low consumption means that the radio can still be used for a whole shift without the need to recharge the battery.

TRBOMOVE can run on Saitel TRBOWAX or Motorola GOB option board making possible to fit in radio series 3000 and 4000. Although it was developed for portable radios, it can also be fitted in mobile radios.

KEY FEATURES & BENEFITS
• Provides key lone worker functionalities: man down, dead man, local alarm, emergency call setup.
• Seamless integration with Motorola MOTOTRBO radios 3000 and 4000 series.
• Suitable for radios with and without display.
• Digital mode supported.
• Low consumption meaning the radio can still be used for a whole shift without the need to recharge the battery.
• Can run on Saitel TRBOWAX or Motorola GOB option board.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
Radio Hardware: any portable MOTOTRBO radio 3000 and 4000.
TRBOnet INDOOR

INDOOR LOCALISATION SYSTEM FOR MOTOTRBO

TRBOnet Indoor is a software and hardware system that allows positioning and control of digital MOTOTRBO subscribers indoors where GPS satellite navigation system signals are unavailable.

TRBOnet Indoor solution includes: Beacon (Transmitter), Option Board with antenna (Receiver) and TRBOnet software. The beacon transmitter K-TERM 70 is designed especially for the TRBOnet Indoor Localisation System. It transmits unique identifying information together with additional service information. The beacon range is from 0.5 m to 25 m. The option Board in the radio receives the IDs of beacons. The RSSI in the option board is used to define the beacon which is closest to the radio.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility MOTOTRBO radio with firmware 1.8 and above.


Interfaces UDP/IP connection to repeaters or USB cable for Control Radios.


Other Requirements PC experienced user.

KEY FEATURES & BENEFITS

• Real time indoor tracking.
• Combined Outdoor and Indoor.
• On Alarm localisation.
• Lone Worker.
• Man Down.
• Text and Telemetry.
• Voice Dispatch and Voice Recording.
• Custom 2D and 3D maps with zoom capability.
• History.
• Reporting.
• Wireless installation.
• RSSI measurements.
• 2-3 year battery for Indoor transmitters, range of up to 25 meters (82 feet).
• Unattended indoor beacon implementation of the IP65 standard.

FIND OUT MORE

WEB: www.trbonet.com/indoor.aspx
FLYER: www.trbonet.com/pdf_files/TRBOnet_Indoor.ppt

ALSO FROM NEOCOM
TRBOnet Enterprise, TRBOnet Watch, TRBOnet Job Ticketing.
VESSELWATCH
FULLY COMPLIANT
MARINE UHF RADIO SYSTEM

VesselWatch is a Windows-based multifunctional software application that allows users to communicate safely and securely with their crew and onboard guests. VesselWatch uses the MOTOTRBO digital radio network in combination with a VW gateway for seamless communication and interaction between the crew and their guests. It is fully compliant with the Maritime Labour Convention 2006 and the entire system can be OEM re-branded. From Basic Guest Services to Automatic Alarm Management, built with an intuitive GUI for ease of use, the system comes complete with a pre-built Ruggedized Central Processor.

Basic Guest Services - at the simple press of a button, either physically or virtually on a guest’s smart phone or i-Pod, a request for attendance will be delivered to the relevant staff member, ensuring their immediate attention and response.

Job Tasking & Scheduled Reminders - jobs can be scheduled into VW system in advance or created at short notice, to ensure the crews basic tasks are never forgotten or ignored, saving time and money.

Alarms - with a single alarm interface device as standard, an alarm can be sent to either single or multiple radios. It is entirely up to users how they tailor the system to suit safe working practices, which would include their own alarm escalation protocols.

SYSTEM REQUIREMENTS
Radio Hardware
MOTOTRBO radios with firmware 1.8 and above. For full feature set, display radios are required.

Interfaces
Supports for Interfaces: I/O, DMR, SMS, RS232, RS485, RS422, MODBUS, TCP/IP, UDP.

Operating Systems
Windows 8.

MOTOTRBO Systems
Control Station / Single Repeater / IP Site Connect / Capacity Plus and Linked Capacity Plus.

Other Requirements
Knowledge of MOTOTRBO CPS and basic knowledge of PC program installation.

KEY FEATURES & BENEFITS
• Radio to Radio Text Messaging: Text messaging can be used when discretion is required, or routine communication needs to be delivered without interrupting other crew members or guests.
• Remote Handset Shutdown: Handset can be remotely shut down giving the vessel the peace of mind that their communication is secure.
• Panic Alarm: The radios are programmed to allow crew members to generate a panic alarm if they get into difficulty, alerting all crew members to take action.
• Lone Worker: Specific radios can be placed in Lone Worker function. The radio then acts as a deadman alarm system alerting crew members of potential issues if no response is received.
• Network Alert: The system scans the vessel’s IT network. Alerts can be set if equipment goes ‘offline’ and the notification is sent directly to the crew members.
• Job Tasking: Jobs can be scheduled in advance or input into the system as and when required. When run in conjunction with the Scheduled Reminders option, it ensures basic tasks are never forgotten, saving you time and money.
• Ultra Secure: VesselWatch has a standard 468bit encryption on all voice and data communications. This ensures vessel communication is free from security breaches. Enhanced 256bit encryption is available as a system upgrade.
• Optimised Range: Experience the far-reaching coverage of the VesselWatch System. IP Site Connect uses the Internet to extend coverage to create a wide-area network, while Capacity Plus single-site trunking expands capacity to over 1,000 users.
• Alarm Notification: The ability to connect to the vessel’s existing Alarm and Monitoring System (AMS) is a key feature. It allows notifications to be sent to selected crew members to ensure action is taken. Alarms can be grouped, avoiding unnecessary crew notifications reducing communication traffic.
• Extra System Apps
  - Alarms – Up to 72 UGs.
  - Alarm Listeners - I/O, DMR, SMS, RS232, RS485, RS422, MODBUS, TCP/IP, UDP/P
  - Tether/Geo-Fence / SMS Messaging / Wind / Advanced Guest Services / 7 Day Weather.

VESSELWATCH USER INTERFACE

MARKETS
Marine Vessels, Hospitality, Building Management

DISTRIBUTION
Worldwide

LANGUAGES
English

FIND OUT MORE
WEB: www.vessel-watch.com
BROCHURE: http://net-logic.co.uk/VW/VW%20Brochure.pdf
ZONITH CENTRALISED LONE WORKER

INTELLIGENT LONE WORKER SOLUTION

Zonith’s Centralised Lone Worker (CLW) application protects staff in volatile environments through continuous ‘alive check’ messages being sent when operating in dangerous areas. These areas are derived from the geo-fences set-up in the Indoor Positioning System (IPS) and/or GPS Mapping solution and can be labelled as ‘safe’ or ‘unsafe’.

Through the Zonith positioning systems, the software can identify when a MOTOTRBO radio enters a dangerous workspace and raises an alarm if the employee does not respond to the message. CLW can be automatically activated based on the time of day or your location, and alarms can be escalated until acknowledged by a competent staff member.

With ZONITH CLW people are assured that their safety is monitored even if their radio or mobile phone fails or is out of coverage.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO firmware release 2.3 or higher

Computer Hardware / Operating Systems
PC Dual-core 2GHz CPU or higher, 4Gb of system RAM
Windows Server or Windows 7.

MOTOTRBO System Architecture
Direct, Conventional Repeater, IP Site Connect, Capacity Plus.

Other Requirements
Works in conjunction with Zonith Indoor Positioning System (IPS) and/or GPS Mapping Solution required.

KEY FEATURES & BENEFITS

• Alive Check - CLW ‘Alive Check’ messages can be sent as often as you want. Lone Workers have a fixed amount of time in which to respond - if they fail to respond an alarm is immediately raised to the support staff.

• Retry Option - Lone Workers need flexibility and can’t always respond even when safe. The ‘Retry’ feature gives users the option to wait for the next ‘Alive Check’ without triggering an alarm.

• Lone Worker Security - CLW messages can be defined and easily changed by the administrator, guaranteeing only the right people are responding. If an incorrect message is returned, an alarm is immediately raised.

• Alarm Escalation - In the event that a Lone Worker fails to respond to an ‘Alive Check’ message, CLW will automatically escalate the alarm notification to ensure that action is taken.

FIND OUT MORE
WEB:  www.zonith.com/products/clw

ALSO FROM ZONITH

RBX+ PLUS  RZR Recording  Indoor Positioning System  Alarm Control System Plus  Man Down Notifier  GPS
ZONITH GIPS

COMBINED GPS & INDOOR POSITIONING SYSTEM

GIPS tracks Motorola radios both indoors via Bluetooth, and outdoors via GPS. When an employee with a radio wanders between buildings (car parks, etc) they will be tracked via GPS, and when they re-enter buildings the Zonith Bluetooth beacons will automatically pick them up and track them over the Bluetooth network.

The transition between technologies is automatic and seamless, with the employee only requiring a single radio device. The positions of all staff on-site can be viewed on one map, making it easy to locate employees in an instant no matter where they are.

This solution has been deployed throughout various Prisons and Psychiatric facilities, but can be used in any vertical where tracking indoors and outdoors is required. It works in conjunction with the Zonith Alarm Control System (ACS) and Centralized Lone Worker (CLW) to provide a complete solution allowing alarms to be raised and dispatched to security with the location of the employee in trouble.

COMBINING BLUETOOTH AND GPS POSITIONING TECHNOLOGY

- Locates people indoors in real-time using Bluetooth.
- Locates people outdoors using GPS.
- Combines Bluetooth and GPS to deliver a positioning solution using one Motorola radio.
- Presents positioning information on one map for a clear graphical overview of people’s locations within buildings or in car parks, sports fields, etc.
- ‘Safe areas’ can be created both indoors and outdoors through geo-fencing. When a staff member leaves a safe area, the GIPS works in conjunction with the Centralised Lone Worker (CLW) application to send ‘are you ok?’ messages to ensure personal safety.
- If no response is received from the employee in the dangerous area, both the GIPS and CLW applications work with the Alarm Control System (ACS), automatically raising and sending an alarm to security with the location of the staff member in trouble.
- Interface can be accessed through a standard browser from any computer connected to the LAN.
- Reporting feature records a person’s position, movement and time in a certain place. Alarms can be shown on Alarm Display Screens at various points throughout a facility for easy and quick response to emergency situations.

SYSTEM REQUIREMENTS

- Radio Hardware / Releases Compatibility: Bluetooth always discoverable Motorola radios.
- Other Requirements: LAN connectivity, Zonith Bluetooth beacons. Reseller must handle installation and provide all hardware (other than Bluetooth beacons).

KEY FEATURES & BENEFITS

- ZONITH GIPS SMARTLY COMBINE GPS AND BLUETOOTH TECHNOLOGY INTO ONE SOLUTION FOR OUTDOOR AND INDOOR LOCALISATION. STAFF CAN BE SAFEGUARDED NO MATTER WHERE THEY ARE LOCATED.

MARKETS
- Prisons, Healthcare & Psychiatry, Industrial & Power Utility, Manufacturing, Mining, Education.

DISTRIBUTION
- Europe & Africa

LANGUAGES
- English.
ZONITH IPS

INDOOR LOCATIONS TO MOTOTRBO RADIOS

The ZONITH Indoor Positioning System (IPS) uses LAN connected beacons to track Bluetooth enabled MOTOTRBO radios within a building. The software application has a graphical user interface to display the real-time location of radio users. Each ZONITH Bluetooth Positioning Beacon creates a detection zone and transfers the location of Bluetooth devices to a central computer over the LAN. The Beacons can be tuned to cover small or wide areas. The system delivers real-time indoor positioning throughout a building, without affecting the radio network performance. Control room staff can move throughout maps and floor plans to locate and track people indoors instead of having to receive position information by voice or other means. Bluetooth enabled radios are only monitored in real time when Bluetooth is turned on. The ZONITH Indoor Positioning System (IPS) has been delivered successfully in prisons, psychiatric hospitals, offshore installations, power plants and other large facilities where size and staff safety makes location an issue.

By combing the ZONITH IPS with ZONITH ACS people are instantly notified of the exact position of a member of staff when they activate an emergency alarm on a MOTOTRBO radio. The system automatically sends a text message with the exact location information of the member of staff to distress to other radio users or control room staff.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
Bluetooth Side Adapter PMLN5712B for DP3xxx radios.
MOTOTRBO firmware release 2.3 or higher.

Computer Hardware / Operating Systems
PC Dual-core 2GHz CPU or higher, 4GB of system RAM, Windows Server or Windows 7. Supports 100/1000 LAN to transfer location data of Bluetooth devices.

MOTOTRBO System Architecture
Direct, Conventional Repeater, IP Site Connect, Capacity Plus.

Other Requirements
Understanding of wireless technologies and IP.

KEY FEATURES & BENEFITS

• Locates people indoors in real-time using Bluetooth.
• Automatically transmits location information to personnel by digital radio.
• Gives a complete general overview of staff resources.
• Clear graphical overview of people’s locations within a building, enabling control room staff to immediately see where resources are - especially in emergency situations.
• Interface can be accessed through a standard browser from any computer connected to the LAN.
• Many enhanced lone worker protection features.
• IPS is used to create ‘Safe Areas’. If a member of staff leaves a ‘Safe Area’ IPS will automatically activate Lone Worker services to ensure the person’s safety.
• Reporting feature records a person’s position, movement and time within a building.

FIND OUT MORE

PRODUCT PAGE:  www.zonith.com/products/ips
PRODUCT FLYER:  www.zonith.com/downloads
ZONITH MAN DOWN NOTIFIER™

MAN DOWN NOTIFIER APP FOR LONE WORKER SAFETY

Man Down Notifier (MDN) assures proactive surveillance of employee well-being and dispatches automatic emergency notifications to the appropriate response individuals or groups when an MDN alarm is triggered.

The application has a unique flexible design that ensures that employees are proactively monitored without affecting their job performance. When powering on an MDN-enabled radio, the application renews its “point of reference” – the vertical axis it considers 0°. MDN also alerts the worker that MDN has been triggered by a visual and audible pre-alarm. The worker then has a configurable lapse of time to dismiss the pre-alarm. These features significantly reduce the number of false alarms MDN detects. The parameter timers of the application are customisable for each individual worker. This enables administrators to change MDN settings to truly fit the needs of their radio users. Workers are also given additional flexibility of use with MDN’s sleep mode, as the application can be disabled for a certain period of time to accommodate for break and meetings.

MAN DOWN NOTIFIER™

SYSTEM REQUIREMENTS

Radio Hardware / Releases compatibility
1 DM3600 or DM4800 series mobile radio per monitored/alarm dispatched radio channel, 1 Mototrbo Expansion Card per subscriber, Mototrbo firmware version 1.09.00 or greater.

Computer Hardware / Operating Systems
PC Dual-core 2GHz CPU or higher, 4Gb of system RAM, Windows 7 Professional 32 or 64 bit or Windows 8 Professional 32 or 64 bit, 10/100/1000 Ethernet LAN.

MOTOTRBO System Architecture
Simplex, Conventional, 8 Site Connect, Capacity Plus, Linked Capacity Plus.

Other Requirements
PC Savvy, Knowledge of MOTOTRBO CPS configurations.

KEY FEATURES & BENEFITS

- Intelligent man down detection algorithms to detect when a worker is in need of help.
- Man down alarm audio beacons to help locate workers.
- Man down pre-alarms to allow users to cancel false alarms.
- Sleep mode to temporarily disable man down detection.
- Configurable parameters for motion, tilt, pre-alarm and sleep mode timers.
- Configurable calibration angle.
- Set audio beacon to always play maximum volume.
- Automatic emergency notification to the appropriate group or individual when man down alarms are triggered.
- Different communication devices can simultaneously receive the man down alarm notifications when paired with ACS.
- Server-based software enhances the robustness of the solution and prevents false alarms.
- Complementary operation alongside RBX +Plus on the same MOTOTRBO expansion card.
- Fully compatible with Telit’s application portfolio.

FIND OUT MORE

WEB:  www.telit.com/products/mdn

ALSO FROM ZONITH

RBX+ PLUS  |  R2R Recording  |  GIPS  |  Alarm Control System Plus  |  Indoor Positioning System  |  Centralised Lone Worker
Select from several solutions that provide the opportunity to customise your MOTOTRBO infrastructure to meet specific needs. There are options to extend the reach of your MOTOTRBO communications network and interoperate with other radio systems, telephones and mobile computing devices.
Adeo-Interox Communication Station is a dispatcher platform developed to guarantee total interoperability between MOTOTRBO and all other radio technologies available on the market. Adeo-Interox solution offers dispatching functionalities, GPS based localisation and cross patch functions. The iRadio gateway provides the ability to cross connect DMR radios with TETRA, analogue radio, GSM, PBX (analog and IP), satellite phones, HF radio, and ASTRO.

Adeo-Interox offers two types of interoperability. The first interoperability type is "mediated" by the operator so that the control room can cross patch between MOTOTRBO users and other radio technology users. The second type offers the opportunity for the radio end user to direct patch his terminal with other technology. Directly from the field, the radio user can send a message that will enable group call involving telephone users, or any radio device from other technology (such as TETRA, ASTRO or 3G cell phones).

With this solution, it is possible to create static or dynamic conference call involving several different radio technologies. Adeo-Interox is ideal for any public or private organisations that need flexible interconnections, localisation and coordination of complete operations on a wide scale for emergency, security and control purposes.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
DMR/DMO release 1.4 or higher, compatible since release 01.02.03. iRADIS Minitora Drive. Minitora connection wire PMKN4016A.

Computer Hardware / Operating Systems
Workstation PC with Microsoft OS. iRAD gateway requires a sound card device per channel and one port (Serial/USB) per channel. Suggested Pentium 4 or equivalent, 1Gb RAM, 50 Gb HDD.

Interfaces
iRadio Gateway hardware supplied by Eurocom Telecomunicazioni.

MOTOTRBO System Architecture

Other Requirements
Experience in MOTOTRBO radio programming. Basic OS and IT administration knowledge required.

KEY FEATURES & BENEFITS

- Interoperability: allows users to activate advanced interoperability functions between heterogeneous PMR networks.
- Worldwide diffusion of PMR communication: the IP protocol is supported by almost all communication service providers. This means that it is easy to obtain the worldwide extension of an IP link. This scenario enables Adeo Interox to extend every PMR communication network throughout the world.
- Flexibility in communications: PMR networks can be used by any users on the IP network. With the Adeo Interox communication software or other standard VOF applications, users can link to any PMR network interfaced by an i-Radio Gateway.
- New services: Adeo Interox provides the possibility for new applications for PMR users like IP multi-conference (video and voice), integrated messaging and presence services.
- Reduced network costs: thanks to the IP convergence, a single technology can be used for all the services (voice, video, data, radio).

Key technical features:
- Client / Server architecture.
- GPS navigation, radio localisation.
- Call recording.
- VOF based.
- Cross Patch functionality (telephone interconnect).

FIND OUT MORE
WEB: http://interox.eurocomtel.com
ALSO FROM EUROCOM TELECOMUNICAZIONI
WITACS | CMO
AUDI O G A T E W A Y
RA-TI-XX

FULL DUPLEX AUDIO GATEWAY FOR CONSOLE AND PHONE BRIDGE

Audio Gateway provides a powerful audio interface for Control Room applications in multisite simulcast and non simulcast networks. RA-TI-01 and RA-TI-02 perform an automatic radio to telephone and telephone to radio interface or an RTP/IP interface for the dispatching centre. Phone interfaces can be analogue PSTN/PABX lines or SIP-IP ports.

These modules, connected through an IP port to a base station or to an IP multisite network, provide a true full duplex DMR audio gateway port. They operate in standalone mode (no external PC needed) and are able to manage an automatic phone bridging and/or interfacing an analog console. The RA-TI-XX is connected to one IP only (e.g. Master station IP). In the case of Master failure, the audio gateway connects itself automatically to the “Alias Master” IP which ensures constant communication between a dispatcher, radio and telephone terminals.

Audio Gateway eliminates communication delays and other instabilities that occur with VOX. A conventional console or dispatching system may be easily re-used in a DMR network saving costs and reducing trouble during migration.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility

Motorola terminals with v1.6a or higher SW release; RA-XX IP base stations as standalone repeater or multisite multicast/simulcast network. Direct interfacing with DR3000 is not yet implemented.

IP Technology

UDP/IP connection between the RA-TI-XX and the base station. RTP/IP connection between the RA-TI-XX and the dispatcher.

IP bandwidth requirement: 20kb/s in analog up/down or 30kb/s in DMR (both timeslots).

Interfaces

Ethernet 10/100TX for IP; 2 wires phone (line user side) or 2/4 wires + E&M from external analog console.

Other Requirements

IP networking basic concepts, MOTOTRBO programming tools.

KEY FEATURES & BENEFITS

There are three main functionalities in Audio Gateway: Phone Bridge, Analogue Console and IP Dispatch.

Phone Bridge Features:

- Full duplex connection eliminates telephone/radio communication delays and other instabilities that may occur with VOX (important for Phone Bridge Applications).
- Direct IP connection with the repeater.
- All DMR calls management (private, group, broadcasting).
- Analogue PSTN/PABX or SIP/IP interface.
- Priority “over the air” output and control of the communication flow.
- Text messaging, emails and positioning reports available on dedicated IP ports.

Analogue Console applications:

- Console port accesses the radio network directly (not from a mobile terminal) with priority respect to the mobile terminals.
- Operates in automatic dual mode analogue/DMR according with the incoming call.

IP dispatching applications:

- Operates in RTP/UDP streaming (standard nu-law 64kb/s digital audio over IP) to create PC based dispatching system.
- SIP based inter-cell/inter-systems communication extender.

FIND OUT MORE


ALSO FROM RADIO ACTIVITY

Easy Simulcast RA-080/160/450
**DAPAGE™**

**POWERFUL GATEWAY SOLUTION FOR RAPID TEXT NOTIFICATION**

Specifically optimised for work ticket system integration, DAPage Hospitality™ is a behind the scenes Software as a Service (SaaS) based gateway solution connecting MOTOTRBO radios to leading Hospitality work ticket order system such as SynergyMMS®, Mtech’s HotSOS®, Guestvane™ and Workspeed® and proprietary systems.

DAPage Hospitality™ enables MOTOTRBO radios to send and receive text messages directly with management solutions and with other texting devices in the field. It seamlessly integrates the powerful MOTOTRBO messaging capabilities with leading management maintenance communication with devices such as the Motorola MOTOTRBO product line.

DAPage™ is a centralised message broker designed to enable cross platform support for messaging, work order management, and dispatch notifications with standards based support for both local and distributed applications. After 15+ years of focus on public safety solutions, we have been working with multiple customer and property management solutions in the hospitality space for a number of years expanding our portfolio and enabling dependable communication with devices such as the Motorola MOTOTRBO product line.

**DAPAGE™ POWERFUL GATEWAY SOLUTION FOR RAPID TEXT NOTIFICATION**

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**SYSTEM REQUIREMENTS**

**Radio Hardware / Releases Compatibility**
- MOTOTRBO radios with firmware from 1.07. Note that certain functions require higher releases such as the new Data entry template capability in 2.3.13. For Connect Plus, at least 1.5 release.

**Computer Hardware / Operating Systems**
- The Internet accessible connection chosen by the property can vary based on the facilities standards. Some examples include, a dedicated basic DSL link, a cellular 3G/4G LTE service (MiFi devices are not recommended), a cable modem, or a link from any existing network all ready deployed and in use. However Internet connectivity is established for the DAGate™ unit, it is not necessary to establish a static IP or to open / map inbound connections to the DAGate™ in your security structure. The DAGate™ unit when connected to your network of choice is designed to open a secure connection back to our servers on the non-standard TCP Port 2222. Additionally, we provide for an alternate connection of a VPN IPsec tunnel, utilising UDP Port 500 and the ESP protocol if needed.

**MOTOTRBO System Architecture**

DAPage is a cloud based solution and delivered utilising the Software as a Service (SaaS) business model. To enable the MOTOTRBO platform, we utilise a hardware controller (DAGate™) to interface to one or more Motorola® gateway radios (Control Stations) or the DDMS/MNIS Wireline server, and link back to our services via an internet capable connection.

When active the DAGate™ will connect to our services host via a secure encrypted tunnel to facilitate work orders and other messages such as text from iPhones & Android cellular devices being routed to the user radios, and replies back to the originating device / application.

**Other**
- Competency in the Design and installation of MOTOTRBO™ radio.

**KEY FEATURES & BENEFITS**
- With an average installation time of a half day, DAPage™ Hospitality is a cloud based Plug & Play solution. This means no capital costs for you and your facilities. Instead, DAPage™ provides the services you need including continuous monitoring, enhanced trouble shooting and unique security capabilities.

- DAPage Hospitality™ features seamless integration with hospitality management programs including CMMS, CRM, and GEM options such as: SynergyMMS®, Mtech’s HotSOS®, Workspeed®, Proprietary systems.

- DAPage™ receives, distributes and processes status updates for your work order and building management transactions, connecting your Computerised Maintenance Management Software (CMMS) with MOTOTRBO.

- DAPage™ Hospitality simultaneously secures messages and tracks important data including time stamps for all events in a transaction for added accountability.

- DAPage™ is for any MOTOTRBO user requiring reliable, dependable and redundant data interfaces.

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**MARKETS**

**DISTRIBUTION**
- Europe & Africa

**LANGUAGES**
- Utilising UTF we can support most languages enabled by the back end systems being interpreted.

**FIND OUT MORE**
- **WEB:** [www.dapage.net/hospitality.html](http://www.dapage.net/hospitality.html)
- **BROCHURE:** [www.dapage.net/download/hospitality.pdf](http://www.dapage.net/download/hospitality.pdf)
**EASY SIMULCAST**

**RA-080/160/450**

**FLEXIBLE BASE STATION FAMILY FOR SIMULCAST INFRASTRUCTURE: IP BASED**

The RA-XXX base stations are “software defined radio” developed to achieve optimum performance on digital and analogue simulcast networks.

Easy Simulcast algorithms automatically detect and solve the main simulcast problems in the overlap areas, allowing fast and easy network implementation. The base stations have the capability to recover accurate sync (time and frequency), adjust the delays coming from IP and RF propagation and align the DMR protocol history to achieve precise and matched emissions of the bit streaming. The main characteristics are: up to 32 slaves for each master, automatic analogue/DMR functioning and network control layer.

Simulcast is a radio network in which all the repeaters are active simultaneously on the same frequency. It corresponds to a “big repeater” using the same frequency over the whole coverage area. It is particularly useful in areas with poor connectivity due to a lack of frequencies (e.g. high density areas with buildings). The simulcast network removes the need of scan on frequencies and their licence costs.

**EASY SIMULCAST RA-080/160/450**

**THE SIMULCAST SOLUTION IS THE BEST SOLUTION FOR EMERGENCY SITUATIONS PROVIDING A FAST AND EFFICIENT “OPEN CHANNEL” COMMUNICATION OVER THE ENTIRE COVERAGE AREA.**

**MARKETS**
- Public-Safety (Police, Fire, Brigades, Medical Rescue, Civil Protection), WW (Oil and Gas, Electricity Production and Distribution), Transportation (Railways, Motorways, Urban Bus and Underground), Municipal Police, Taxi, Campus, National Parks, Telemetry and SCADA Applications.

**DISTRIBUTION**
Worldwide (please specify your phone line signalling standard).

**LANGUAGES**
- English, Italian, French, German.

**SYSTEM REQUIREMENTS**

**Radio Hardware / Releases Compatibility**
- MOTOTRBO terminals with 1 aila or higher SW release; RA-TI-XX as audio-gateway if needed; RA-XXX base stations as multisite IP simulcast network. Currently direct interfacing with OR3000 is not possible.

**IP Technology**
- Protocols: UDP/IP and TCP/IP (ipv4) multicast and unicast according to RFC 4594.

**Bandwidth**
- The IP bandwidth is used in presence of valid signal only. It is required >70Kb/s in analog or 30Kb/s in DMR (both timeslots); the Master requires N x this bandwidth to manage N active Slaves.

**Interfaces**
- Ethernet 10BT/100TX for IP, SMA for external GPS receiver antenna.

**Other Requirements**
- IP networking basic concepts, MOTOTRBO programming tools, familiarity with multisite radio networks.

**KEY FEATURES & BENEFITS**
- “Plug and play” dual mode analogue/DMR simulcast solution.
- Integrates all simulcast algorithms: dual mode CCH Voting system, fully automatic signal calibration and equalisation algorithms, timing and frequency synchronisation.
- Able to operate with the most popular link interfaces like TCP/IP, twisted wires, narrow band radio frequency link and also in mixed environments.
- Radio system automatically reacts to failure situations by seeking a minimum possible disruption.
- An “Alias Master” station, placed away from the main Master, will automatically replace the Master in case of failure.
- Full UNLX “IP native” platform.
- Soft diversity receivers for best performance in fading events.
- Temperature, VSWR and voltage protections with automatic DMR advises.
- IP ports dedicated to audio gateway, txt messages, positioning and telemetry.
- Powerful remote control tools that minimize set-up and maintenance costs.
- Compact structure (1/2 SUBRACK 19” 3HE, width 280 mm) made up by single shielded modular units, internal diplexer included.
- Up to 25W RF power in 68-88 MHz (RA-080), 48-174 MHz (RA-160) and 410-470MHz (RA-450) bands.
HERNING D.H.R.

TELEPHONE INTERFACE
TELEPHONE GATEWAY, PHONE PATCH

As an automated management of the radio network, Herning D.H.R. Telephone Interface provides a gateway between the telephone network through analogue private and public land lines, GSM modem or Inmarsat satellite systems and a two way radio analogue or digital network, computer systems via port RS 232 (for computer, printer and modem) and external audio equipment via a microphone input and speaker output (for intercom, desktop and speech synthesis).

The installation of the Herning D.H.R. Telephone Interface is easy, and full support is provided by a hotline service.

A typical application for the Herning D.H.R. Telephone Interface is security. With the DHR Telephone Interface, a security guard can at the same time manage incoming phone calls, technical alarms and control access. The interface functionalities then integrate to give a safe radio link test, alarm management (up to 42 alarms), lone worker safety and guard tour features.
K-TERM42
OPTION BOARD FOR DP/DM3XXX RADIOS - SELECT 5, MAN DOWN AND INHOUSE LOCALISATION

The K-TERM42 is an option board that can be fitted on the portable radios DP340x and DP360x and the mobile radios DM340x and DM360x. On analogue channels, the K-TERM42 is a select 5 decoding and encoding module with a Man Down alarm functionality. The K-TERM42 select 5 module can be used in all analogue radio systems with the select 5 functionality.

On digital channels, both the Man Down and lone worker functionality can be used for in-house localisation. The signals from beacons (K-TERM70) are detected and the radio position is sent to the base.

Programming the functionality is easy thanks to the K-TERM CPS program. Once the option board is installed in the radio and the radio attached to the PC with the Motorola USB cable, the CPS program allows users to set all parameters and save them in the option board. When a new option board firmware is released, it can be uploaded to the option board using the same CPS programme.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
DP340x / DP360x and DM340x / DM360x.
Computer Hardware / Operating Systems
Windows 2000 / XP / VISTA with installed Motorola USB drivers for connecting the DMR radios.
Interfaces
USB programming cable from Motorola.
Other Requirements
After installing the option board in the radio, the Motorola dealer must be equipped with the tools to restore the waterproofing of the radio. The necessary tools and information are available from Motorola.

KEY FEATURES & BENEFITS
• Lone Worker.
• Man Down.
• In-house localisation.
• Universal Option Board.
• 5-Tone Signaling.
• Console for analogue mode.
• All buttons programmable for encoding sequences.
• Customised options.
• Tilt switch for Man Down (optional).
• Alarm notifications.

FIND OUT MORE
WEB: www.kilchherr.com
FLYER: www.kilchherr.com/page.php?id=sfhe5

ALSO FROM KILCHHERR ELEKTRONIK
K-TERM46 | K-TERM70 | K-TERM42
PHONE@TRBO™

TELEPHONE INTERCONNECT

PHONE@TRBO™ allows radios to connect to public or corporate office phone systems. It is possible to pre-program a button for emergency calls, transfer calls to security guard’s radios while away from their desk, use the company’s phone system to dial a specific radio or talkgroup. Emergency calls are sent to the AllCall talkgroup. There is also Man-down emergency support for unmonitored lone worker.

Voice prompts make it friendlier to use for telephone callers. PHONE@TRBO™ offers the features of a traditional analogue phone patch while adding the benefits of both digital telephony and MOTOTRBO radios. For instance, text messaging is used for signaling, not only to make a call, but also to notify the caller-ID of an incoming call. In case the call is missed, it is easy to call back by simply replying to the caller-ID text message. Similarly, call filtering notifies phone callers that a radio is offline or they misdialed the group, thus freeing up airtime and the phone line.

Best, PHONE@TRBO™ does not burden subscriber radios with an additional repeater entitlement ID, or option board, nor it requires phone callers to know what slot to call into. It can even be expanded to support email and other features.

Find out more:
DATA SHEET:  www.tabletmedia.com/italkiePI.pdf
MANUAL:  www.tabletmedia.com/wt/phone@trboGuide.pdf
ALSO FROM TABLET MEDIA:
- Freetalker™
- Text@trbo™
- WebTracker@trbo™
- EmailTracker@trbo™

MARKETS

DISTRIBUTION
Worldwide.

LANGUAGES
English. Other languages available upon request at no extra cost.
The TRS2090 is a specialized radio communication system for locomotives, metro trains and light rail. It has been designed according to the specifications for railway environmental requirements as defined in the European standards EN50155 and EN50121-3-2, EN 50121-4 and provides the complete set of 3rd party certifications. As a result, it is a very durable and rugged train radio system with minimal space requirements.

The Train Radio System TRS2090 with its sub-components ZSE2130 as the central control unit and COCO2137 as HMI is available in both, IP20 and IP65 ingress protection and can be mounted at critical locations within the rolling stock as well as in standard 19” (3HU) racks.

The system uses an embedded MOTOTRBO mobile in either VHF or UHF as RF front end. A configuration with one or even two COCO2137 connected to the central control unit for double headed trains is possible.

In railway networks the needs for equipment lifetime are much higher than for other markets. ErvoCom guarantees spare part support on PCB level for a minimum of 10 years after the system delivery.

**Key Features & Benefits**

**Train Radio System TRS2090**
- Voice communication in point to point, group call and emergency mode
- Hardware availability for direct implementation of on-board computer applications
- Transparent data traffic from/to on-board computer systems
- Digital I/O’s for train control functions
- Train Line interface to on-board PA (Public Address) systems
- Train Line interface from/to INTERCOM and passenger emergency terminals
- Short message exchange (SDS)

**HMI COCO2137:**
- Railway proven HMI
- Excellent tactile button feedback
- Simple operation and menu navigation through Scroll & Select
- Separate emergency call button
- Display with automatic brightness sensor
- Keypad illumination
- Connectors for speaker, microphone and handset
- High-resolution TFT color display

**Central Control Unit ZSE2130:**
- Frequency bands VHF and UHF
- Train running number based call (functional addressing)
- Point to point voice calls
- Group calls
- Call priority control
- Call sub-addressing to PA- and INTERCOM systems
- Data interfaces from/to other on-board systems
- Event, error, alarm and system-control messages via SDS
- Easy software update via USB stick
- MVB Interface (optional)
- VSWR error detection (optional)
- GPS positioning (optional)

**System Requirements**

- Radio hardware / Releases compatibility
- Motorola DM, XPR, DGM Series
- Computer Hardware / Operating Systems
- Linux OS
- IP Technology
- TCP, UDP, SIP, RTP (VoIP)
- Interfaces
- Ethernet, RS232, RS485, USB, E&M

**MOTOTRBO System Architecture**

- Conventional
- IP Site Connect
- Capacity Plus
- Linked Capacity Plus
- Connect Plus
- Data interfaces from/to other on-board systems
- Event, error, alarm and system-control messages via SDS
- Easy software update via USB stick
- MVB Interface (optional)
- VSWR error detection (optional)
- GPS positioning (optional)

**Languages:**

English, French, German, Spanish, Turkish.
Other languages on request.

**MARKETS**

Railway, Public Transportation.

**DISTRIBUTION**

Worldwide.

**Interoperability**

**Price**

ZSE2130 starts from €4,600.
COCO2137 starts from €1,500.

**Demo System**

Demo systems can be provided based on specific request and agreement via ErvoCom International AG, CH-8855 Wangen, Muehlestrasse 23a.

**Contact:** Mr. Patrick Vogt

**Support**

Languages:

German, English.

**Contact:** Mr. Kai-Olaf Wick

**Price**

Prices are project and feature dependent.

**Demo System**

Demo systems can be provided based on specific request and agreement via ErvoCom International AG, CH-8855 Wangen, Muehlestrasse 23a.

**Contact:** Mr. Patrick Vogt

**Support**

Languages:

German, English.

**Contact:** Mr. Kai-Olaf Wick

**Find Out More**

**Web:** www.ervocom.ch

**Order / Ship Cycle Time**

4 Months.
ZONITH
RBX +PLUS™

RADIO BRANCH EXCHANGE:
ADVANCED TELEPHONE INTERCONNECT

RBX+Plus (Radio Branch Exchange) is an advanced telephone interconnect specifically designed to allow radio users to make and receive phone calls directly on their MOTOTRBO radios. RBX+Plus brings all the benefits and functionalities of corporate unified communications to digital radios, enabling industries to operate under one private business critical mobile telephony network. This product allows digital radios to communicate with phones with access to familiar telephony features, such as call history, phonebook, and caller ID. It gives customers the ability to truly control their mobile communications coverage area while reducing mobile communications costs without sacrificing functionality. RBX+Plus streamlines communication between phone and radio users with private calls, talkgroups and callgroups. The app was designed to easily scale, and can connect digital two-way radios to something as simple as a standard POTS phone line or as complex as a corporate phone system (PBXs).

This application provides organisations with a compelling alternative to cellular and WiFi solutions for their mobile work force. While staying connected in any location is paramount, Teldio delivers the same cellular functionality directly to the mobile worker’s radio leveraging existing radio and telephony infrastructure in a whole new way.

KEY FEATURES & BENEFITS
• Integrated phonebook.
• Call history.
• Missed call notification.
• Caller ID display.
• Speed dialing.
• Call transferring.
• Do not disturb mode.
• Auto answer mode.
• Call recording and logging.
• User provisioning.
• Password protection for channels and users.
• Multi-site roaming.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
1 DM3600 or DM4800 series mobile radio per simultaneous phone call, 1 Motorola Expansion Card per subscriber, Motorola radio firmware version 1.09.00 or greater, 1 digital time slot per simultaneous phone call.

Computer Hardware / Operating Systems
PC Dual-core 2GHZ CPU or higher, 4Gb of system RAM, Windows 7 Professional 32 or 64 bit or Windows 8 Professional 32 or 64 bit, 10/100/1000 Ethernet LAN, PCI-E slots for Sound Cards per simultaneous phone call.

Interfaces
IP PBX SIP Trunking, Analog T1 Trunking, PSTN, Internet Telephony Service Provider (ITSP), GSM/3G.

MOTOTRBO System Architecture
Simplex, Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus.

FIND OUT MORE
WEB:  www.teldio.com/products/rbx

ALSO FROM ZONITH
Indoor Positioning System  •  RCR Recording  •  GPS  •  Alarm Control System Plus  •  Man Down Notifier  •  Centralized Lone Worker
There are a number of MOTOTRBO applications that enable data transmission for a variety of purposes. MOTOTRBO is particularly well suited as a cost-effective alternative in environments where common data transmission systems such as fibre optic, WiFi or GSM are not suitable or are too expensive to establish.

Monitor and control operational processes remotely with an array of telemetry applications. These include water supply, electricity distribution, oil and gas pipelines as well as siren warning systems. For example, data regarding water quality, flow, pressure and electricity supply can be transmitted from remote sites to MOTOTRBO subscribers.
**connexBOX®**

FULLY FEATURED TELEMATIC SOLUTION

connexBOX appliances are a set of in-vehicle appliance solutions from neoTerra. Integrating different hardware and firmware components, connexBOX offers powerful functionality for anyone interested in Telematics functionality. All of the connexBOX appliances incorporate all the logical features you would expect such as F.A.S.T reporting as well as store and forward capabilities.

The **connexBOX XL** is neoTerra’s premier hardware solution. With the XL device, vehicles can be monitored with much greater detail than ever before on a MOTOTRBO System. In addition to telemetry and event based reporting, the connexBOX XL can support 3rd party sensors as well as Mobile Data Terminals.

**SYSTEM REQUIREMENTS**

**IP Technology**
- PC, Internet, Ethernet.

**MOTOTRBO System Architecture**

**KEY FEATURES & BENEFITS**

- GPS Tracking & Revert support.
- 5 second granularity on GPS location tracking.
- Complete Telematics: speed, location, geocoding, input output, GPS no fix etc.
- Event based reporting.
- Compatibility and integration with Command Alkon and Marcotte for Ready-Mix applications.
- Status Monitoring.
- Bundling.
- Out of range storage.
- Ignition detection.
- Store and Forward.
- Work-Order Integration.

**MARKETS**
- Utilities, Taxi operators, Public transit. All municipality operations, Tow truck operators, Health transportation services, Yarrawonga, Mining and Oil, Concrete/Ready-Mix and School Bus services.

**DISTRIBUTION**
- Worldwide.

**LANGUAGES**
- English.

**FIND OUT MORE**

WEB: [www.neoTerra.ca](http://www.neoTerra.ca)

**ALSO FROM NEOterra SYSTEMS**

[EMEA MOTOTRBO™ ADP APPLICATIONS CATALOGUE - SEPTEMBER 2015](#)
The COP921 is a telemetry and communication unit which allows up to 8 radio users to automatically receive a text message. COP921 supports two types of text messages: TMS (Text Messaging System) which can be received by each MOTOTRBO device, and CallOut text messages which can be received by MOTOTRBO radio devices with a built-in Option Board DMR910.

The CallOut text message is displayed on the radio device until a key is pressed by the operator. Simultaneously, different tones with variable volume level may be generated via the loudspeaker. The way of representing the CallOut text message is not programmed in the radio device but is encrypted in the CallOut text message (the way the message is represented is defined within the COP921). It is also possible to delete the CallOut text message from the radio device via the air interface, which is of value when, for example, a fault has been rectified before the radio subscriber has pressed a key. For instance, when a group of radio subscribers is alerted and one of the subscribers accepts the service order, the CallOut text message can be deleted from all other radio devices.

This application integrates MOTOTRBO and the applications COP921 and DMR910/DMR915.
DMP921
USB SERIAL CONVERTER FOR MOTOTRBO

The DMP921 interface converts the USB interface of MOTOTRBO radios to a Phoenix compatible interface. This enables users to operate Phoenix telemetry applications via a DMR network. Measured values can just as well be transmitted as telecontrol commands.

In addition, the DMP921 can perform the necessary activations at the USB interface to control the radio. Simple commands entered via the serial interface enable you to use the mobile radio with many applications.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO series radios.

Interfaces
USB interface to connect DMR radio device (DM3xxx and DM4xxx).
RS485 In expansion Phoenix Contact Module.
DMP921 ADK Software.

MOTOTRBO System Architecture
Single Site, IP Site Connect, Capacity Plus, Linked Capacity Plus.

Other Requirements
Optimal use with:
RAD-IN-8D max. 30 mA.
RAD-OUT-8D max. 160 mA.
CAUTION: do not connect more than 6 of these modules.
RAD-IN-4A max. 130 mA.
RAD-OUT-4A max. 130 mA.

KEY FEATURES & BENEFITS
- Channel and zone switch.
- Typing texts into the display.
- Activate / deactivate scanner functions.
- Adjust transmitting capacity.
- Activate the radio call system.
- Control remote radios.
- Send text messages. 
- UDP data communication between radio device and computer.
- UDP data communication between two radio devices.
- UDP broadcast data communication.
- Transparent mode for data communication.
- Adjustable interface parameters.
DMR921

USB SERIAL CONVERTER FOR MOTOTRBO

The interface unit DMR921 converts the USB interface on MOTOTRBO radios to an RS232 interface, allowing applications and hardware that only support RS232 to function over a DMR network.

The DMR921 converts the native USB interface on the MOTOTRBO mobile radio into RS232, but also performs the required initialisation of the MOTOTRBO USB interface. The radio can be configured and used for various applications with simple instructions being sent via the serial interface.

Typical applications include control of switches, water levels, flow, pressure and quality measurement in utilities, gas and water supply, energy/power supply, wind turbines and industrial automation systems.

DMR921
THE DMR921 PROVIDES A SERIAL RS232 INTERFACE ON THE MOTOTRBO RADIOS.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
DM340x or DM360x Firmware Version at least 1.03.01.

IP Technology
PC or another application able to communicate with AT-commands on RS232 with the DMR921.

Interfaces
USB interface to connect DMR radio device (DM3xxe and DM4xx).
RS485 to expansion Phoenix Contact Module.
Cable set for the connection to the radio included.

MOTOTRBO System Architecture
Single Site, IP Site Connect, Capacity Plus, Linked Capacity Plus.

KEY FEATURES & BENEFITS

• Change of channel and zone.
• Volume adjustment and loudspeaker control.
• Typing text in the display.
• Switching on/off scanner functions.
• Adjustment of transmitting power.
• Use of emergency call functions.
• Activation of the radios call system.
• Reception of calls.
• Remote control of radios.
• Text messages.
• UDP data communication between two radios or radios and a PC.
• Data transparent mode.
• Adjustable interface parameter.

FIND OUT MORE

ALSO FROM ATS ELEKTRONIK

DRC8010  |  DMR910 & DMR915  |  COPQ21  |  DMP21
DMRAert® TAD

**TECHNICAL ALARM DISPATCHER**

DMRAert® TAD can connect and listen to any types of alarms and dispatch them to the right person or group. TAD forwards Alarms to MOTOTRBO radios by SMS and Voice. When connected to a BMS or LPT output, the Text To Speech (TTS) feature offers the highest performance by delivering the exact message - converted into voice – to the radios. TAD provides a comprehensive range of alarm management functionalities including acknowledgement, escalation, escalation to alternate, schedule, supervision with cartography (Plant Maps), full traceability and safety.

DMRAert® TAD dispatches alarms to radios, as well as to phone sets by e-mail, relay outputs and the cartographic supervisor software which manages the plan maps and shows alarms including location when they occur with a red flash and personalised sound alarm. DMRAert® TAD Lone Worker Safety alarms are also managed and can be forwarded to MOTOTRBO using specific rules. In combination with the Guard Tour, TAD enables users to send the alarms directly to the patroller, allowing cost reduction as patrollers directly receive alarms on their radios.

**SYSTEM REQUIREMENTS**

- **Radio Hardware / Releases Compatibility** MOTOTRBO radios.
- **Computer Hardware / Operating Systems** PC Windows Seven Pro, IP, USB, Sound.
- **MOTOTRBO System Architecture** Conventional, IP Site Connect, Capacity Plus, Linked Capacity Plus, NAI Data, CSBK.

**KEY FEATURES & BENEFITS**

- Dispatches all types of Alarms to MOTOTRBO, Phone sets, Email, Relay, Cartographic Dispatcher.
- Connects to most popular systems: Siemens, Chubb, DEF, ABB, BMS fire alarm and building management systems, dry over IP (Wago, Iologic) and Mototrbo Telemetry.
- Pushes alarm messages by SMS, Voice, Text to Speech, to commercial standard hypervisors (Winsup, Intouch, PC Vue, MicroSesame).
- Full IP solutions: dry contact over IP, the most popular protocols to connect to BMS, fire alarm systems such as OPC and ESPA and Telemetry.
- GUI: Multi Map Cartographic Supervisor.
- Acknowledgement – Escalation – Escalation to Alternate.
- Personal and group management.
- Schedules.
- Manual alarm launching by operator (e.g. evacuation).
- Enhanced radio – group - dynamic – temporary staff management.
- Status, Text messaging SMS, Radio Control.
- Users & Rights management.
- Full traceability.

**MARKETS**

Industry, Security Services, Technical Services, Shopping Centres, Prisons.

**DISTRIBUTION**

EMEA

**LANGUAGES**

English, French.

**SUPPORT**

Languages: English, French.

- T: (+33) 3 88 78 97 05
- E: support.dmralert@alsatel.fr
- H: 09:00 – 17:00 CET

**PRICE**

DMRAert® TAD packages are available from €2,000. Please contact the developer for further details.

**DEMO SYSTEM**

Demo software available.

**ORDER / SHIP CYCLE TIME**

About 2 days / stock.

**FIND OUT MORE**

WEB: www.telecoms.eiffageenergie.com

ALSO FROM EIFFAGE

DMRAert® STREET  DMRAert® INTRACK  DMRAert® ENTERPRISE  DMRAert® GT
ERDI-12
DATA INTERFACE FOR DEVICES ON RS232 OR RS485 AND ETHERNET FOR MOTOTRBO

ERDI-12 is an interface between MOTOTRBO DM3000 and DM4000 series and other devices such as PCs, PLCs or RTUs using RS232, RS485 bus or Ethernet.

ERDI-12 is used for data transfers with the following protocols: Modbus ASCII, Modbus RTU, IEC-101, DNP3, Connection Oriented (x25 like protocol) and Connectionless oriented (broadcast). Data packet length is up to 500 bytes. ERDI-12 can be used as a digipeater as well. Radio channels can be changed with a command.

ERDI-12 acts as a radio communication interface for various devices. The devices can use a serial data port or an Ethernet port to connect to the ERDI-12. The data sent by the connected devices is forwarded to the local radio station through a USB connection. The local radio station then transmits the data to the remote radio station. Later the data is forwarded to the ERDI-12 which by using the appropriate communication interface (serial/Ethernet) sends the data to the connected device.

Data transfer is packet oriented. A 16-bit CRC value is used to detect data corruption.

**SYSTEM REQUIREMENTS**

- Supported radio hardware / MOTOTRBO firmware release: DM3000 or DM4000 series.
- IP technology: PC, PLC or other device able to communicate on RS232, RS485 or Ethernet.
- Interfaces: USB interface to connect the MOTOTRBO hardware: DM3000 or DM4000 series. RS232, RS485 or Ethernet for communicating with PC, PLC or other devices.
- Supported MOTOTRBO system architecture: Single Site, IP Site Connect, Capacity Plus, Linked Capacity Plus.

**KEY FEATURES & BENEFITS**

- Allows connection to RS232, RS485 or Ethernet interfaces for PC, PLC or other RTUs.
- Programmable RS232 or interface.
- Status leds (Power, Data, Error).
- Wide input voltage range (9-36 V DC).
- Reliable data transfer using 16-bit CRC and retransmission.
- Data packet length up to 500 bytes.
- Change channel and zone.

**MARKETS**
Gas and water distribution, Waste water systems, Electricity distribution, FLOODING PROTECTION

**DISTRIBUTION**
Worldwide

**LANGUAGES**
English

**DEVELOPER**
ERDI-12
ERDI-12 PROVIDES SERIAL RS232 OR RS485 AND ETHERNET INTERFACE TO OTHER DEVICES: PC, RTU OR PLC.

**MARKETS**
Gas and water distribution, Waste water systems, Electricity distribution, Flood protection

**DISTRIBUTION**
Worldwide

**LANGUAGES**
English

**FIND OUT MORE**
WEB: www.naglic.si
FS-3000 and FS-4000 are option boards providing an interface with different data devices via a RS-232 interface. FS-3000 is designed for use with any MOTOTRBO R1.X radios and FS-4000 with MOTOTRBO DM2xxx/DM4xxx radios. FS-3000 and FS-4000 option boards are respectively compliant with Motorola requirements for MOTOTRBO R1.X OB and MOTOTRBO R2.X OB. FS-3000 comes in two models: FS-3000M for MOTOTRBO mobile radios and FS-3000P for MOTOTRBO portable radios.

The option board is installed inside the radio and uses the internal bus of the radio. The data-cable is connected to the mini-jack on the option board. For the portable, the data-cable for the portable radio is connected directly to the accessory connector.

The MOTOTRBO radio equipped with FS-3000 or FS-4000 option board can be used by various kinds of telemetry controllers in Utilities, Oil & Gas and Water supply, Energy/power supply and Industrial Automation.

A typical application is the ability to connect older RTUs to newer MOTOTRBO radios to facilitate migration to digital and protecting investment.
IFMI1

TRANSPARENT DATA & TELEMETRY INTERFACE

The IFMI1 is a transparent Data and Telemetry Interface developed for use with MOTOTRBO DM3000 Series.

The IFMI1 is based on a microcontroller with a powerful ARM Cortex-M3 core. It comes with the following interfaces and GPIOs: two RS232 interfaces (no hardware flow control), Ethernet 10/100 M interface, one digital output, two digital inputs and diagnostic LEDs.

An optional high sensitivity onboard 16-channel GPS receiver is available.

The IFMI1 is a low cost solution for data transfer in systems where MOTOTRBO technology is being used for voice communication already. It overcomes a shortcoming of the MOTOTRBO product where data can be sent and received only via a USB port. The IFMI1 can be used for different kinds of applications.

**SYSTEM REQUIREMENTS**

Radio Hardware / Releases Compatibility
MOTOTRBO DM3000 Series.

Other Requirements
Very good knowledge of IP technology.

**KEY FEATURES & BENEFITS**

- Allows direct connection to Ethernet and RS232 interfaces of different data devices like RTUs, computers or simple control devices.
- Can be easily programmed via the Ethernet interface.
- Two RS232 interfaces, programmable from 110 to 115200 bit/sec.
- One Ethernet 10/100M interface.
- One digital output (max. 30V, 150 mA).
- Two digital inputs (L=0 to 0.8 V, H = 2.5 to 14 V).
- Status LEDs (two for Ethernet activity, two are application driven).
- Optional onboard 16-channel GPS receiver.
- Firmware flash able via Ethernet port.
- Power feed via internal radio bus.
- Power drain: 50mA.
- Operating temperature: -30°C to +75°C.
- Storage temperature: -40°C to +85°C.
- Dimensions: 50 x 170 x 30 mm.
- Mounted directly onto the radio and requires no separate power supply.

**FIND OUT MORE**

WEB: www.connectel.eu/en/applications/ifmi1-option-board

FLYER: www.connectel.eu/userfiles/file/applications/IFMI1_SpecSheet_eng.pdf

**ALSO FROM CONNECTEL**

IFME2
The IFME2 is a transparent Data and Telemetry Interface developed for use with the following MOTOTRBO mobile radios: DM1000 Series (in digital mode), the DM2000 Series and the DM4000 Series.

The IFME2 is an external device that can be mounted close to the radio and connects to the auxiliary connector of the radio (a cable is included).

The IFME2 is based on an A10 SoC (System on Chip) with a powerful ARM Cortex-A8 processor core and provides several peripherals for the data transmission over MOTOTRBO. The two USB interfaces and the 100Mbit native Ethernet interface are used by the solution.

Fully transparent for data transmission, the interface can be used to send and receive applications over a MOTOTRBO radio network. Potential applications can be: text messaging, environmental monitoring, flood control, monitoring of oil and gas pipelines, remote control of high voltage switches, board computers for Public Transportation and telemetry for oil and gas excavation fields.

### System Requirements

**Radio Hardware / Releases Compatibility**


On R2.4 or higher.

**Other Requirements**

PC or other applications which communicate over RS232 or Ethernet.

Programming of the IFME2 interface per PC via the Ethernet interface.

### Key Features & Benefits

- Allows direct connection to Ethernet and RS232 interfaces of different data devices like RTUs, computers or simple control devices.
- Can be easily programmed via the Ethernet interface.
- USB type A interface for connecting to the auxiliary connector of the radio.
- Second USB type A interface for optional USB/RS232 adapter.
- Mini USB interface (USB-OTG).
- One Ethernet 10/100Mbit interface.
- Status LEDs for Ethernet activity.
- Micro SD card (8GB) for storage of the operation system and the application software.
- Power drain: up to 500mA @ 5VDC via external power adaptor.
- Operating temperature: -40°C to +75°C.
- Storage temperature: -40°C to +85°C.
- Dimensions: 27 x 67 x 92 mm.

### Markets

Utility Companies, Railways, Oil and Gas Pipelines, Transportation.

### Distribution

Europe, Eastern Europe, Middle East and Africa.

### Languages

English, Czech, Russian and Ukrainian language.
**K-TERM82**

**IO-BOX FOR DMR RADIOS**

The IO box K-TERM82 is used for data collection as well as for steering external equipment. The unit integrates various serial communication hardware, analogue and digital inputs and digital outputs with up to 12A current sourcing.

The K-TERM82 is attached to the DMR radio via a USB cable. It can be programmed to set output lines on receiving K-TERM data or text messages. Changes on input lines (analogue and digital) can be used to send K-TERM data or text messages.

The K-TERM serial protocol allows transferring information to attached units via RS232 or RS485. Optionally, the unit can be equipped with additional communication hardware (LAN, CAN).

**SYSTEM REQUIREMENTS**

- **Radio Hardware / Releases Compatibility**: All radios DP/DM3xxx and DP/DM4xxx.
- **Computer Hardware / Operating Systems**: Windows 2000 / XP / VISTA / WIN 7 for K-TERM CPS.
- **Interfaces**: K-TERM programming CPS for configuring K-TERM82.

**KEY FEATURES & BENEFITS**

- 16 Output lines.
- 16 Input lines digital.
- 8 Input lines analogue.
- USB connection to DMR radio.
- Optional 1 to 4 high current output module with 4x12A per Output.
- RS232, RS485, CAN, LAN.

**FIND OUT MORE**

- **WEB**: www.kilchherr.com
- **FLYER**: www.kilchherr.com/page.php?id=sfhd9

**DEVELOPER**

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**SUPPORT**

Languages: English, French, German.

T: (+41) 31 721 36 95
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H: 14:00 – 17:00 CET

**PRICE**

K-TERM82 IO Box: basic unit with 16x Output, 24x Input line, USB connection DMR Radio.

1-99: €395

>100: price on-demand

Optional requirements quoted on demand.

**ORDER / SHIP CYCLE TIME**

1 to 2 weeks delivery if product in stock. If not, it may take 4 to 6 weeks. Delivery dates are confirmed on receipt of order.
The neoConneX family of appliance solutions provides the back-end infrastructure to support GPS and Telematic features on MOTOTRBO radios. All solutions under the neoConneX name are purchased as a hardware appliance solution. Both the GPS appliance, namely neoConneX Fleet Manager, and the text messaging capability provided by the neoConneX multiGate can work in parallel with one another to create a single comprehensive system with an extensive range of features and capabilities. This allows large and smaller organizations alike to manage their fleets, easily from their own dispatcher. neoConneX is a back-end system, so all interfaces are web based for secure and easy access.

**neoConneX SOLUTION DIAGRAM**

**KEY FEATURES & BENEFITS**

neoConneX multiGate (Text Messaging): Capable of unlimited licenses and multi-users. The neoConneX multiGate offers value-added features such as email integration, SNMP, SCADA integration and text messaging. This allows radios in the field to receive alerts and messages from automated systems or even custom back-end solutions. Includes SNMP traps with Genesis GW3-TRBO.

The neoConneX Fleet Manager (GPS): Capable of integrating a wide range of mapping sources including custom GIS mapping sources.

- Providing an easy to use GUI interface to allow multiple views for dispatchers to view location data of vehicles and also integrate weather data. GeoCoding built-in. 5 second granularity on GPS location tracking.
- The neoConneX multiGate and neoConneX Fleet Manager can operate as a single unit, or in a 1:1 redundant mode to further increase the reliability of a system. They can also serve as companion products to each other to provide a fully featured solution.
PHOENYX
TECHNOLOGICAL AND PERSONAL ALARM MANAGEMENT AND TRANSFER

The PHOENYX suite allows to transfer different types of alarms or events coming from external sources (technology alarms I/O, personal alarms such as man-down, push-button, no-movement, pull-cord), fire system or nurse call, to the telephone system (PABX or GSM), radio system (MOTOTRBO/TETRA) and to the IT world.

PHOENYX uses alarm connectors I/O with external contacts and an IP interface where all contacts are set; serial interface (serial/IP) used in ESPA solution (nurse call) or RS-232 solution (Fire protection system). PHOENYX processes the data received by the source devices and transfers them as defined by the user, either: SMS, email, call, text or a generic text output. Alarms can be notified as a text or vocal message with internal IVR, due the security laws, focus of the lone worker solution.

PHOENYX suite support: Group management, different priority, acknowledge and reverse acknowledge, virtual environment (VMware or Virtual host Oracle). PHOENYX can be integrated into an existing infrastructure using standard technology instead of a proprietary hardware.

PHOENYX is a web-based solution configured and managed via a web interface from any PC connected via LAN without any client installation.
RADIOPAD BASE STATION

WIRELESS COMMAND & CONTROL CENTRES FOR MOTOTRBO

radioPad™ is an Android and iOS based application allowing users to control the functions of their MOTOTRBO or TETRA radios away from the base station radio or from outside their vehicle by creating mobile hot spot access and a radio user interface via mobile devices. Functions that can be controlled include: Channel Control, Site & Zone Control, Voice Calls, Emergency Operation, Subscriber & Group Alias or ID, Contacts Management, Talk Around, Permanent Monitor, Radio Check, Remote Monitor, Scan, Text Messaging, Call Logging, Security Radio, Lone Worker, Direct Mode Communication between various radioPad devices, Enterprise Class and Wireless Security (WEP, WPA-2-Enterprise, WPA2-PSK, WPA-PSK).

With radioPad™ users have the capability to control multiple radios from a tablet, using a customised user interface to personalise communications. radioPad™ also has multi-language capabilities.

Additional Enterprise applications include hotspot integration with Credit Card Readers, Authentication, Scanners, Barcode, Biometrics, Alarms, Invoicing, Ticketing and RFID to transmit data from those devices through the radioPad application over your radio network.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO 1.8

Computer Hardware / Operating Systems
SafeMobile SafeBridge™ Unit, Android based tablet or mobile device (5” screen – Pod / 7”+ screen – Pad)

Interfaces
Android 2.1 or higher

MOTOTRBO System Architecture
Capacity Plus, Linked Capacity Plus, Conventional, IP Site Connect & Connect Plus

Other Requirements
Basic computer and Windows system knowledge.

DEMO SYSTEM


ORDER/SHIP CYCLE TIME

Available through Google Play Store.

FIND OUT MORE

RADIO PAD

KEY FEATURES & BENEFITS

• Android-based or iOS solution with smartphone app.
• Customisable GUI interface and multiple languages.
• Integrates with existing radio system.
• Wireless freedom to control communications from your wrist, from outside of the vehicle, or away from the base station in your dispatch center.
• Email transmission and image transmission.
• Improved field communications.
• Enhanced emergency response communication with full Enterprise Class Encryption.
• Advanced text messaging allows two-way SMS communication between a radio or group of radios.
• Voice call (Private, Group and All Calls) direct to any Radio or other radioPad. Emergency calls with remote DeKey (for selected users).

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Contact Sales: David Rodriguez
Contact Service: Cristian Tanese

PRICE
Recommended List Price: $795.00

Available suites:
VoiceDispatch.
Text.
Radio Controls.
Enterprise Integration.

Mapping options:
N/A.

Optional services:

Visit the developer website for a quote.

RADIO PAD

DISTRIBUTION
Worldwide

LANGUAGES
English, Russian, French, Spanish, German, Turkish, Arabic, Romanian, Czech, Chinese, Italian.

MARKETS
Public Safety, Government, Transportation, Oil & Gas, Taxi and Limousine, Utilities, Public and Student Transportation, Private Security, Municipal Services, Emergency Services, Fleet Management

RADIOPAD BASE STATION
RADIOPAD ENABLE
USERS TO USE
AN ANDROID OR
IOS CELL PHONE
OR TABLET AS A REMOTE
CONTROL HEAD
FOR MOTOTRBO
RADIOS.
SmartPTT FILE TRANSFER
FREEWARE APPLICATION TO TRANSFER FILES THROUGH A MOTOTRBO RADIO CHANNEL

SmartPTT File Transfer is a freeware application to transfer files through the radio channel based on MOTOTRBO radios. SmartPTT File Transfer was specifically designed for effective data transmission taking into account the limitations of the connection provided by MOTOTRBO.

It consists of 2 modules: a Client Application which transfers the selected files to the server PC, and a Server Application which accepts the files sent from the client. The MOTOTRBO radio must be connected to the server computer via USB.

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO radio with firmware 1.08.32 or higher.

Computer Hardware / Operating Systems
PC, Windows XP SP3 / 2003 / Vista / Windows 7 / Windows 8, 1Hz x86 Pentium 4, 512 Mb RAM, 10 Mb HDD.

Interfaces
USB 2.0.

MOTOTRBO System Architecture
IP Site Connect, conventional networks.

Other Requirements
.NET Framework 4.0, USB data cables for programming MOTOTRBO radios.

KEY FEATURES & BENEFITS
• Transfer speed 1150 Bit/s.
• Automatic transfer recovery.
• List of clients allowed to transfer to the server.
• Designed for effective data transmission taking into account the limitations of the connection provided by MOTOTRBO.
• Easy to install, lightweight application and immediately available to download.
• Free of charge.
WiTACS

TOUCH SCREEN AUTOMOTIVE TABLET, NAVIGATOR, DATA EXCHANGE

WiTACS is a professional and energy-efficient PC for in-vehicle use. The control panel is a touch screen display that provides a simple and easy interface for use with different MOTOTRBO radios.

In the world of advanced communications there is an increasing demand for a vehicle system that is able to use different radio technologies. WiTACS is suitable for public safety and commercial use for data transmission and navigation purposes, alarm management and database access.

A tablet running on the Android operating system is able to send and receive messages from its 7/10 inch touch screen display using MOTOTRBO and also 3G networks.

With WiTACS users can perform database queries using DMR data transmission. It is also possible to shoot a picture with the tablet camera or create word documents and send them all to the control room.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
MOTOTRBO radios with Bluetooth (4000 Series).

MOTOTRBO System Architecture

Other Requirements
Bluetooth, IP, MOTOTRBO, Android Tablet.

KEY FEATURES & BENEFITS

• Facilitates remote access to database for direct access to different services.
• Versatile product for more effective fleet management and resource deployment whilst taking full advantage of digital transmission.
• Data exchange using DMR and 3G networks.
• Touch screen display.
• Supports connection to GPS in MOTOTRBO radios or to external receiver and uses the GPS coordinates in many applications such as AVL.
• Database query (e.g. plate request information) or customised query.
• “Text to speech” functionality.
• Android OS.
• Pictures management.
• Document management.

MARKETS
Government, Emergency Services, Railways, Airports, Metro, Taxi, Bus and Limo Service, Rental Car Companies, Utilities.

DISTRIBUTION
EMEA and Latin America.

LANGUAGES
English, Italian, French, Spanish.
Other languages on request.

WiTACS TAKING FULL ADVANTAGE OF MOTOTRBO DIGITAL TRANSMISSION, WiTACS PROVIDES MOBILE CONNECTIVITY AND COMPUTING POWER FOR VEHICLE USERS - DELIVERING MORE EFFECTIVE FLEET MANAGEMENT AND RESOURCE DEPLOYMENT.

FIND OUT MORE
WEB: http://witacs.eurocomtel.com

ALSO FROM EUROCOM TELECOMUNICAZIONI
CMO Adeo-Interex
ZONITH ACS

AUTOMATIC ALARM DISPATCH FOR INCREASED SAFETY AND EFFICIENCY

The ZONITH Alarm Control System (ACS) is a Windows based software application that intelligently and automatically dispatches emergency and business critical alarms to MOTOTRBO radios.

ZONITH ACS picks up alarms from any alarm source. It pairs the alarm with the right on duty employee using an intelligent scheduler, ensuring that problems get handled at the right time by the right person. ACS automatically selects alarm responders based on availability, location and skill set. ACS is a fully automated system and is designed to significantly improve the way people work and manage their time. Alarms can be sent as text messages to people using MOTOTRBO, TEAM VoWLAN phones, pagers, mobile phones or email devices.

The ZONITH Alarm Control System user interface is browser based and uses as an intelligent scheduler to assign alarms to individual users based on competencies and provides automatic alarm escalation to ensure action is taken. The ZONITH Alarm Control System combined with MOTOTRBO radios allows people to remotely acknowledge, decline and close alarms using MOTOTRBO radio messaging and Job Ticketing features.

ZONITH ACS
ZONITH ACS
ALLOWS A WORKFORCE TO
RECEIVE, READ
AND MANAGE
ALARMS OR TASKS
WHILE ON THE
MOVE - WITHOUT
THE NEED TO
RETURN TO A
CONTROL ROOM
OR ALARM PANEL.

SYSTEM REQUIREMENTS
Radio hardware / Releases Compatibility
1 MOTOTRBO base station, radio firmware version 1.6.0 or greater.

Computer Hardware / Operating Systems
PC Dual-core 2GHz CPU or higher, 4GB of system RAM, Windows Server or Windows 7.

Interfaces
Supports Alarm Interfaces: RS232, I/O, ASI1, SMPT, OPC, SMS, TETRA, DMR, Ekahau, DATABASE. Ask for information about other interfaces.

MOTOTRBO System Architecture
Direct, Conventional Repeater, IP Site Connect, Capacity Plus.

KEY FEATURES & BENEFITS
• Active, Centralised and Automated 24/7.
• Handles any alarm from any source.
• Watch schedule integration.
• System Alive Checker - constantly pings the radio network and ACS to ensure 24x7 uptime. If either is down, an SMS will be sent via the GSM network to IT Personnel.
• Prioritises alarms for optimal use of resources.
• Receive emergency and business critical alarm text messages on MOTOTRBO radio.
• Acknowledge, decline, close and escalate alarms using your MOTOTRBO radio interface.
• Define and schedule the flow of alarms to ensure the right people are immediately notified.
• Create action filters to handover alarm messages to other media, e.g. GSM, E-mail.
• Automatically dispatch alarms based on peoples competency and location.
• Notify mobile phone and e-mail users when people press their MOTOTRBO radio.
• Provide Centralised Lone Worker functionality by raising alarms if people don’t respond to a message.
• In combination with ZONITH Indoor Positioning System (IPS) supports ‘Safe Area’ to automatically activate Centralised Lone Workers.
• Provides a web browser interface from any connect computer.
• Alarm Display Screen - touch screen that can be mounted anywhere in your facility to display and manage alarms.

FIND OUT MORE
PRODUCT PAGE: www.zonith.com/products/acs
PRODUCT FLYER: www.zonith.com/downloads

ALSO FROM ZONITH
Indoor Positioning System | SDR Recording | GPS | BBX+ PLUS | Man Down Notifier | Centralised Lone Worker
To get the best from your MOTOTRBO system, you need to know how it’s performing. These applications give you a dashboard view of key metrics and parameters, with detailed logs on your radio system usage helping you to optimise performance and define future system growth and upgrades.

Several reporting and analysis tools are available which our ADP partners have developed to help you optimise the performance of your MOTOTRBO system and enhance the management of your network. These include voice dispatch, voice call recording (with date and time stamps), the ability to control system usage, prioritise calls and identify which users are active. You can also view graphical representations of the network infrastructure for real-time network monitoring, identify the type of data transferred by repeaters, map coverage areas and log hardware failures.
GW3-TRBO®

ENHANCED PERFORMANCE MANAGEMENT FOR MOTOTRBO NETWORKS

GW3-TRBO® is a system management tool to monitor, manage, archive, report and create notifications on MOTOTRBO™ systems. GW3-TRBO provides a quick and easy way to capture system activity and performance. The software offers enhanced functionality to Motorola’s Repeater Diagnostics Alarms and Control (RDAC) software by presenting the system administrator with live performance and usage information for each radio and talkgroup and alarm notifications.

GW3-TRBO users can instantly view who is using airtime, real-time talkgroup activity, and data from the MOTOTRBO repeaters. This allows for quick, visual confirmation that the network is performing as expected.

RDAC (Repeater Diagnostics and Controls) application allows a system administrator to monitor and control repeaters within the system (analogue or digital). While this repeater monitoring and control component is critical to the system, GW3-TRBO provides additional functionality by presenting the system administrator with live performance and usage information on the system.

GW3-TRBO® is compatible with up to 6 sites. Desktop Specs: Desktop, 17” (quad core, 8mb cache, 3.40GHz), 8Gb RAM, RAID, keyboard, mouse, speakers, 3yr NBD Onsite Service. Required for 7 or more sites and/or increased database capacity.

Server Specs: Dell PowerEdge R420 Rackmount Server, Xen (6 core, 15M Cache, 1.90GHz), 8Gb RAM, RAID Controller, 2x100Gb 15k Drives, DVD-RW, Windows Server 2008 R2 64, SQL Server 2008R2 Standard (or above), Office Basic, ReadyRails (2/4 Post).

Interfaces
• IP Connectivity to Master Repeater for GW3-TRBO to connect as a peer.

GW3-TRBO Live Views include:
• All Activity Screen.
• Activity by Talkgroup with Emergencies.
• Affiliation Display (Connect Plus only).
• Alien Manager, Security Manager, Site and Systems Input.
• Channel Screen.
• Channel Summary.
• Detailed usage by subscriber, groups agencies.
• Detailed usage by site, channel, slot.
• Subscriber Access Monitor.
• System Activity Summary.
• SysVista Dashboard.
• Trigger Notifications.

GW3-TRBO 15+ Reports include:
• Subscriber Access Control (SAC) provides system administrators control of network usage to maintain a secure system.
• All Activity Screen.
• All Activity Summary.
• Channel Summary.
• Quick View.

KEY FEATURES & BENEFITS
• Central monitoring of multiple MOTOTRBO systems with one easy to use program.
• Establish parameters for automatic system alerts and notifications.
• Archive network activity for up to six months to enable historical and forensic reporting.
• Remote IP monitoring to diagnose system issues from one central location, minimising system downtime and maintenance costs.
• Report on system and subscriber, usage and performance.
• Incident reporting.
• Retrieve and generate reports on network activity.
• Establish parameters for automatic system alerts and notifications.

SYSTEM REQUIREMENTS

Radio Hardware / Releases Compatibility
• MOTOTRBO firmware 1.6A or newer; XRT9000 Gateway must be purchased for connection to Connect Plus.

Computer Hardware / Operating Systems
• Compatible with up to 6 sites. Desktop Specs: Desktop, 17” (quad core, 8mb cache, 3.40GHz), 8Gb RAM, RAID
• Required for 7 or more sites and/or increased database capacity.

Server Specs: Dell PowerEdge R420 Rackmount Server, Xen (6 core, 15M Cache, 1.90GHz), 8Gb RAM, RAID Controller, 2x100Gb 15k Drives, DVD-RW, Windows Server 2008 R2 64, SQL Server 2008R2 Standard (or above), Office Basic, ReadyRails (2/4 Post).

Interfaces
• IP Connectivity to Master Repeater for GW3-TRBO to connect as a peer.

GW3-TRBO System Architecture

GW3-TRBO Core Software Modules include:
• Alias Manager, Security Manager, Site and Systems Input Manager, Trigger Notifications.

GW3-TRBO Modules:
• 3 x IP inputs, 6 months storage

GW3-TRBO-NME:
• Includes GW3-core, 1 x client, DEMO SYSTEM

FIND OUT MORE

WEB: www.genesisworld.com/EMEA/TRBO/
FLYER: www.genesisworld.com/EMEA/TRBO/pdf
MODULES: www.genesisworld.com/EMEA/TRBO/modules.asp
SmartPTT MONITORING
REAL-TIME REMOTE MONITORING AND CONTROL OF MOTOTRBO INFRASTRUCTURE

SmartPTT Monitoring is a software application providing real-time and comprehensive analytics on the radio network for in-depth analysis and optimal management of your MOTOTRBO infrastructure.

The system administrator can check the performance of the dispatcher system and control the hardware remotely from a simple graphical user interface.

SYSTEM REQUIREMENTS
Radio hardware / Releases compatibility MOTOTRBO radios with firmware R1.8 or higher.
Computer Hardware / Operating Systems Windows 7/8/Server 2008, Intel Core i3 or higher, minimum 2 Gb RAM, no less than 12 GB available hard drive space.
Interfaces Ethernet.
Other requirements Monitor.

KEY FEATURES & BENEFITS
• Real Time Monitoring – graphical representation of voice and data activity received from MOTOTRBO repeaters allows watching over the system in real time.
• Network Topology – graphical representation of radio network schema: radio servers, repeaters, routers, UPSs.
• Hardware Diagnostics – information about current state of connected MOTOTRBO repeaters and radioservers.
• Hardware Control – tools to shut down or restart radioservers and MOTOTRBO repeaters.
• Hardware malfunction alarms.
• Monitoring Analytics – graphical presentation of the collected data: proportions of event duration during a chosen time frame and daily, proportions of voice and data activity per day during a chosen time period.
• Monitoring Reports – detailed report based on collected data and filtered by a number of criteria.
• Minimised expenses for system maintenance.
• Real-time network infrastructure monitoring.

FIND OUT MORE
WEB: www.smartptt.com
FLYER: http://smartptt.com/marketing
VIDEO: www.youtube.com/smartptt

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PRICE
SmartPTT Monitoring:
Base package 1 radioserver
2 system consoles
5 repeater licenses
(1 year update subscription)
€ 2,650.
Optional modules:
System Administrator Console,
Repeater Connection, Servers.
Detailed price list by request.
DEMO SYSTEM
2 months demo license FREE.
SmartPTT Monitoring demo is available for download from the official website:
http://smartptt.com/download
ORDER / SHIP CYCLE TIME
1 business day.

ALSO FROM ELCOMPLUS
EMEA MOTOTRBO™ ADP APPLICATIONS CATALOGUE - SEPTEMBER 2015
SYSTEM MONITORING
TRBOnet WATCH
MONITORING AND DIAGNOSTIC FOR DIGITAL RADIO SYSTEMS

TRBOnet Watch is a client-server Windows application that monitors all traffic on MOTOTRBO IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus systems - or a single repeater in IPSC mode.

It displays transmitted GPS, ARS, Voice, Text Messages, System and User data with RSSI, source and destination radio ID’s and Peer ID’s. TRBOnet Watch helps to balance channel loading, as well as define and solve problems in a radio network.

TRBOnet Watch provides users with a system overview in live display, instant system notification, monitoring of channel loading, view of voice and data usage.

TRBOnet WATCH USER INTERFACE

SYSTEM REQUIREMENTS
Radio Hardware / Releases Compatibility
MOTOTRBO Firmware 1.6.3 or higher

Computer Hardware / Operating Systems
Windows XP / Windows 7 / Windows Server

Interfaces
UPD/IP connect to repeaters.

MOTOTRBO System Architecture
IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus or a single repeater in IPSC mode.

Other Requirements
MS SQL Server 2008 R2 Express Edition or Higher

KEY FEATURES & BENEFITS
• Monitoring and audit of digital channels.
• IP Site Connect / Capacity Plus system topology.
• RF quality control on a Map.
• Analytics module.
• Reporting.
• Online repeater alarm control.
• Email notification.
• Basic / enhanced privacy support.
• Billing.

FIND OUT MORE
WEB: www.trbonet.com/productview.aspx?id=190

ALSO FROM NEOCOM
TRBOnet Enterprise | TRBOnet Indoor | TRBOnet Job Ticketing

MARKETS
Motorola Service Shops, Radio Communications Networks, MOTOTRBO System Owners.

DISTRIBUTION
EMEA, North America, Latin America, APAC

LANGUAGES
English, Russian, French, Portuguese.
The MOTOTRBO™ ADP Applications Catalogue should help you quickly locate a supplier for a solution that will meet your specific needs. Note that all information given in this catalogue directly or via downloadable files is based on statements by the MOTOTRBO ADP Partners. Motorola Solutions is not responsible or liable for any product or information provided by our ADP Partners.

For more information on how to remaster your communications with MOTOTRBO, visit www.motorolasolutions.com/mototrbo or find your closest Motorola representative or Authorised Partner at www.motorolasolutions.com/contactus