TRBONET PLUS FOR MOTOTRBO™

**PREMIUM CONTROL ROOM SOLUTION FOR MOTOTRBO™ DIGITAL TWO-WAY RADIO SYSTEMS
SOLD AND SUPPORTED BY MOTOROLA SOLUTIONS**

PREMIUM CONTROL ROOM SOLUTION

FEATURE-RICH, ROBUST AND TRUSTED

Motorola Solutions brings you TRBOnet PLUS through cooperation with Neocom Ltd - one of the market leaders for control room solutions.

Exclusively available through Motorola Solutions and supported by our customer service teams, this product offers the most advanced features for radio fleet management, dispatch and voice and data communications. It leverages the enhanced MOTOTRBO wireline network interface which allows dispatchers to interface directly with the system over IP. This improves the system stability, security and reliability but also reduces hardware overheads and can lower maintenance costs. MOTOTRBO Control Room Solutions have undergone stringent quality testing in Motorola Solutions' labs ensuring they meet the highest standards of quality, solve business critical problems and deliver exceptional customer experiences.

POWERFUL FUNCTIONALITY

TRBOnet PLUS keeps operators in complete control of even the most demanding multi-site systems. Designed with the dispatcher in mind, a wide variety of everyday operations can be automated using defined rules and smart tools such as scheduled text messages, voicemails for offline radios or geofencing. Dispatchers can now monitor the status of users and their location with live updates, while assigning tasks to the most relevant resources, and improving personnel safety with automatic alarms when unplanned events occur.

SIMPLE AND ROBUST

A key benefit of TRBOnet PLUS is the wireline network interface which establishes a direct link between the control room and the radio system. Connectivity is simplified for a more cost-effective and reliable solution architecture. And dispatchers benefit from an enhanced experience with full transparency, recording of all group and individual calls and more communications security from the radio to the application.

MODULAR AND FLEXIBLE

TRBOnet PLUS is modular so you only have to buy the features you need. It can be tailored to individual requirements to ensure optimum performance across a range of industries. It is also easily scalable from small to large systems that are ready to grow with your business as it expands.

TRIED AND TESTED

Developed specifically for MOTOTRBO professional digital two-way radio systems, TRBOnet PLUS has been tested in Motorola's engineering labs to ensure the highest quality performance and seamless integration into the MOTOTRBO system.

SOLD AND SUPPORTED

COMMUNICATE WITH ALL TEAMS
MOBILISE THE RIGHT PEOPLE
ENHANCE SAFETY & PRODUCTIVITY
IMPROVE RESPONSE TIMES
STAY IN CONTROL
CONNECT WITH OTHER SYSTEMS
IMPROVE YOUR SYSTEM PERFORMANCE

MAXIMISING EFFICIENCY & SAFETY FOR HAZARDOUS CONSTRUCTION SITES

With specialist teams working to strict deadlines in potentially dangerous situations, reliable communications and personnel monitoring is critical for maximising worker safety and efficiency. MOTOTRBO Control Room Solutions keep everyone connected so multiple teams can coordinate operations. Real-time personnel monitoring and automatic alarms provide an immediate response in the event of an emergency.

CONSTRUCTION

MANAGING TRANSPORT SERVICES MORE EFFICIENTLY

Whether you are coordinating ground services for an airport, bus depot or train network, efficiency in the distribution centre is key. Operators need to monitor and be in constant contact with personnel to ensure the safety of workers and the public. Strong audio coverage across a wide area and efficient dispatch management helps ensure the smooth running of services and fast resolution of issues.

TRANSPORT

ENHANCING SAFETY AND OPERATIONS IN REMOTE MINES

Often located in difficult to access locations where cellular coverage is limited, mining and exploration sites present a unique challenge. To efficiently manage daily operations and ensure worker safety, a reliable voice and data communications infrastructure is required to connect staff at the site with head office. A high performance control room solution enhances dispatch operations, tracks supply vehicles travelling between sites and enables a quicker response to break-downs and emergencies.

MINING

MANUFACTURING

OPTIMISING COMMUNICATIONS & EFFICIENCY IN MANUFACTURING

With many specialist teams working on shifts and to strict deadlines, manufacturing demands a strong, reliable communications system. And because working environments can be potentially hazardous, monitoring personnel at all times is critical. An integrated control room solution keeps everyone in touch with reliable inter-group radio coverage while tracking the location of multi-site workers.

OIL & GAS

KEEPING PERSONNEL SAFE ACROSS OILFIELDS

Maintaining good communication with work teams and ensuring their personal safety is a key priority for oil industry executives, especially in areas of extreme weather. Integrated MOTOTRBO Control Room Solutions boost communications between management and teams with extended call functionality while allowing for the monitoring and management of radio users across vast territories.

DELIVER EXCEPTIONAL CUSTOMER SERVICE

Exhibitions, conferences, hotels and retail centres are fast-paced environments that rely on teams of workers coordinating tasks to ensure optimum service for customers. Managing and monitoring shifts is a key factor in maximising operational efficiency. Integrated MOTOTRBO Control Room Solutions help you stay in constant communication with your teams and let you track who is doing what and where so you can quickly reassign duties should the need arise.

HOSPITALITY & RETAIL

COST-EFFECTIVE & EASY TO DEPLOY

VOICE AND DATA COMMUNICATIONS

TRBOnet PLUS provides integrated fully-featured dispatch control over single and multi-site or multi-channel systems. It supports voice communication and data operations for conventional single site repeater, IP Site Connect, Capacity Plus, Linked Capacity Plus and Connect Plus systems by direct wireline interface with the MOTOTRBO network.

At the heart of the MOTOTRBO Control Room Solutions is the enhanced wireline network interface. This simplified architecture establishes a direct connection between the control room solution and system. With no additional hardware required, system stability, security and reliability are improved for more effective dispatching, monitoring and records management.

Utilising the wireline network interface, dispatchers can now communicate directly over IP to the system without having to go through control stations. This makes liaising with radios and talkgroups so much quicker, easier and more effective – essential when dealing with emergencies or reassigning workers to maximise productivity.

The simplified architecture also ensures TRBOnet PLUS is more cost-effective with reduced hardware investment, easier deployment and lower maintenance costs.

Redundancy can also be built in to improve system availability.

KEY BENEFITS
- Less hardware and maintenance costs
- Better reliability due to reduced points of failure
- Full group and individual call recording
- Less complexity for easy deployment
- Easily integrates into existing on-site IT networks
- Redundancy with multiple clients working from server
- Works over multi-site and multi-channel systems

THE MOTOTRBO WIRELINE NETWORK INTERFACE PROVIDES DIRECT CONNECTIVITY BETWEEN THE CONTROL ROOM SOLUTION AND RADIO SYSTEM

### SYSTEM USING WIRELINE NETWORK INTERFACE

APP CLIENT/SERVER — IP NETWORK — MOTOTRBO WIRELINE NETWORK INTERFACE — RADIO SYSTEM — RADIOS
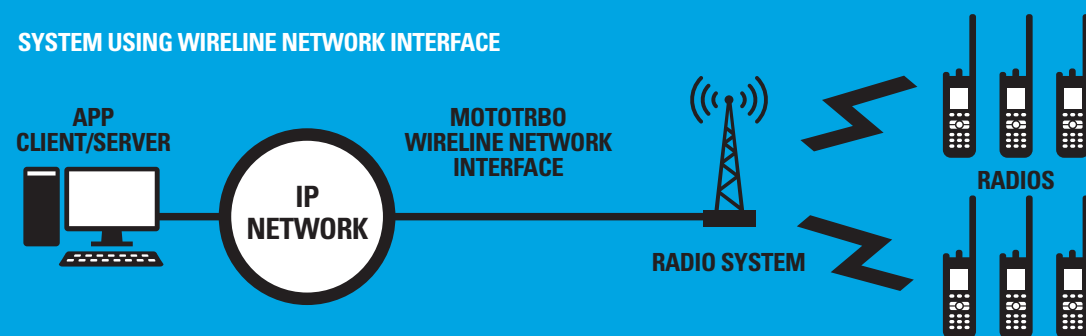
SYSTEM USING DEDICATED CONTROL STATIONS AND ASSOCIATED GATEWAYS

APP CLIENT/SERVER — IP NETWORK — GATEWAY — CONTROL STATIONS — RADIO SYSTEM — RADIOS
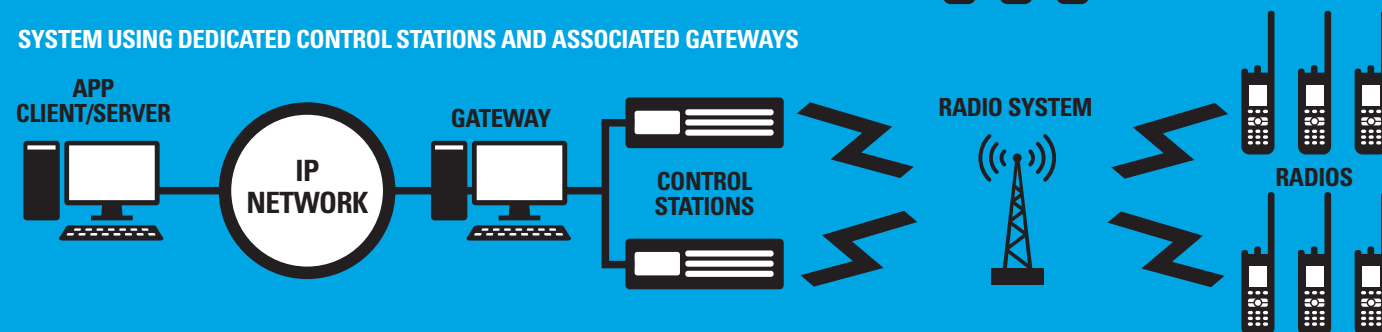
FEATURE-RICH

TRBOnet PLUS includes a variety of functional modules for improved fleet management and dispatch. In addition to the comprehensive set of core modules, users can add extra functionality and control with optional modules.

CORE
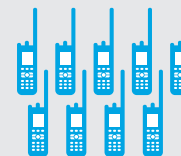
FLEET ADMINISTRATION
Efficiently manage fleet operations and remotely control radios. Get live status updates and configure the radio to send online/offline reports to the server.

VOICE DISPATCH
Provide communications between the dispatcher and remote radios. Make broadcast, group, private, remote monitor or emergency calls even quicker using programmable shortcuts.

JOB TICKETING*
Create, assign and monitor job tickets through the radio network to deliver routine tasks more efficiently. Radio users can accept or decline the job ticket by simply pushing a button.

EVENT LOGGING
Log all system events including voice calls, text messages and status changes. Customise rules, filter and group events or generate reports detailing location and radio status.

TELEMETRY*
Monitor and manage remote equipment from the control room. The system supports native MOTOTRBO telemetry with multiple profiles supported for different devices.

TEXT MESSAGES & EMAIL
Easily communicate with other devices when voice communication is not possible. Send broadcast, group or private text messages. Radio users can text back to the dispatcher.

ALARM & LONE WORKER
Improve the safety of personnel with automatic alarms and lone worker protection. The alarm can also be sent as an automated message, e-mail or SMS.
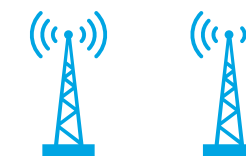

AES ENCRYPTION
Secure your communications with the industry-standard 256-bit encryption scheme.

VOICE RECORDING
Continuous voice recording of all calls with playback for analysis, reporting or training purposes. Audio files are stored in MP3 format on the Radio Server and Dispatcher.

IP SYSTEM BRIDGE
Communicate between radios located on different networks. Interconnect geographically distributed systems and set up permanent and dynamic bridging of voice and data calls.

GPS TRACKING
Follow workers, vehicles and business assets in real-time to ensure maximum safety and productivity. View routes, set up GeoFencing and log radio movements using a configurable set of rules.

DATA WEB CLIENT
Empower remote dispatchers to access the system using a web interface.

INDOOR POSITIONING*
Track personnel and business assets inside your facility with a Bluetooth-based indoor location system.

RF COVERAGE MONITORING*
Maximise system performance and make sure everyone is connected with RF coverage maps. These provide a graphical representation of network coverage based on the RSSI level of signals received from GPS-enabled MOTOTRBO radios.

EXTENDED ALARM MANAGEMENT
Automatically notify your staff of important events, using job tickets, text messages or calls.
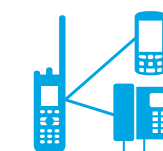
PHONE INTERCONNECT*
Make and receive calls between MOTOTRBO radios and telephones and also allows a dispatcher to make and receive telephone calls through the dispatcher console.

OPTIONAL

*Not available for Connect Plus systems

TRBOnet PLUS

Developed in cooperation with Neocom, TRBOnet PLUS is a professional PC-based, wireline client-server dispatch software application exclusively developed for MOTOTRBO™ digital two-way radio systems.

Designed exclusively for MOTOTRBO digital two-way radio systems, this control room solution supports voice communications and data operations in conventional systems, Connect Plus, Linked Capacity Plus, Capacity Plus and IP Site Connect using a direct wireline interface.

With TRBOnet PLUS, operators can monitor audio, data and asset location, as well as provide record management and review events that have taken place. It's easy to track staff and key assets on a live map, send and receive private text messages to personnel in the field and respond quickly and effectively to emergency situations. Dispatchers can also link multiple agencies or departments with a single touch for even greater flexibility.

The software can be operated over the internet by multiple dispatchers located anywhere using the 'Remote Dispatch' function. Detailed reports highlight essential information including audio recordings, texts sent, radio status (on/off) and much more.

Two key advantages of TRBOnet PLUS are its scalability and reliability. Administrators can easily increase the number of users on the radio communication network or its geographical coverage at any time to handle increased demand. And with the simplified wireline network interface, high levels of performance are assured.
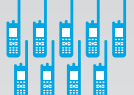

SOLD AND SUPPORTED
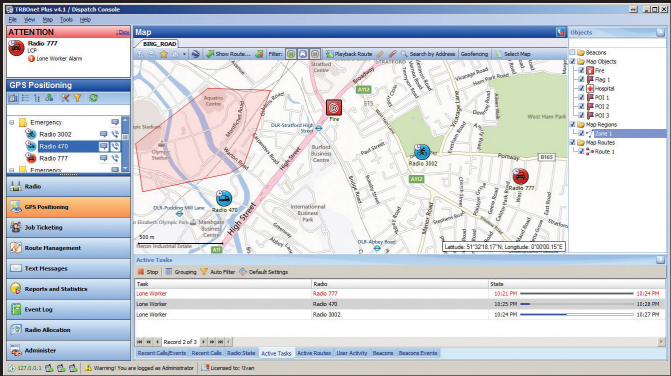
FUNCTIONAL MODULES

CORE	OPTIONAL
VOICE DISPATCH	GPS TRACKING
FLEET ADMINISTRATION	VOICE RECORDING
EVENT LOGGING	IP SYSTEM BRIDGE
ALARM & LONE WORKER	PHONE INTERCONNECT*
JOB TICKETING*	RF COVERAGE MONITORING*
TELEMETRY*	AES ENCRYPTION
TEXT MESSAGES & EMAIL	INDOOR POSITIONING*
	EXTENDED ALARM MANAGEMENT
	DATA WEB CLIENT

*Not available for Connect Plus systems

TECHNICAL INFORMATION

RADIO SERVER PC SPECIFICATION	DISPATCHER PC SPECIFICATION	IP BANDWIDTH	MOTOTRBO HARDWARE
• Intel Core i5 processor or higher • Windows 7 / 8 / Server2008 32 or 64 bits • 3 GB RAM • 180 GB Hard drive • MS SQL Server 2008 Express Edition or higher	• Intel Core i3 processor or higher • Windows 7 / 8 Professional 32 or 64 bits • 3 GB RAM or better • 180 GB Hard drive • Sound card • Microphone and Speakers or regular PC Headset	• Between Server and Repeater: 64 kbps per repeater • Between Server and Client: 64 kbps per client per voice channel	• Radio Firmware Version: R01.12.02 or higher • Repeater Firmware Version: R02.30.02 or higher

These are general guidelines, the final system specifications will depend on users' MOTOTRBO system size and configuration.
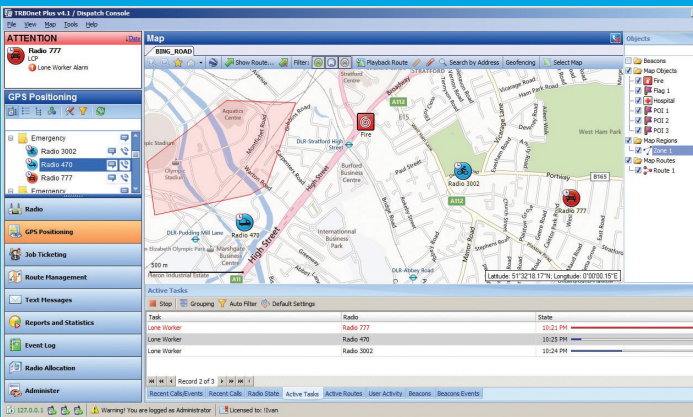
LANGUAGES
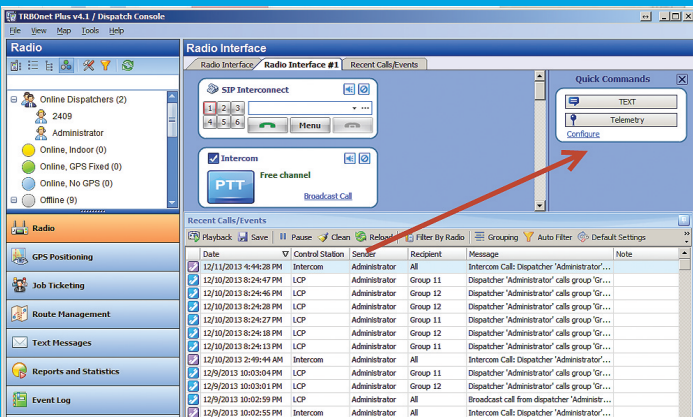English, German, Italian, Russian and Spanish

ARCHITECTURE

IP NETWORK   XRT GATEWAY

REPEATERS   REPEATERS

SINGLE SITE CONVENTIONAL, IP SITE CONNECT, CAPACITY PLUS OR LINKED CAPACITY PLUS SYSTEM   CONNECT PLUS SYSTEM
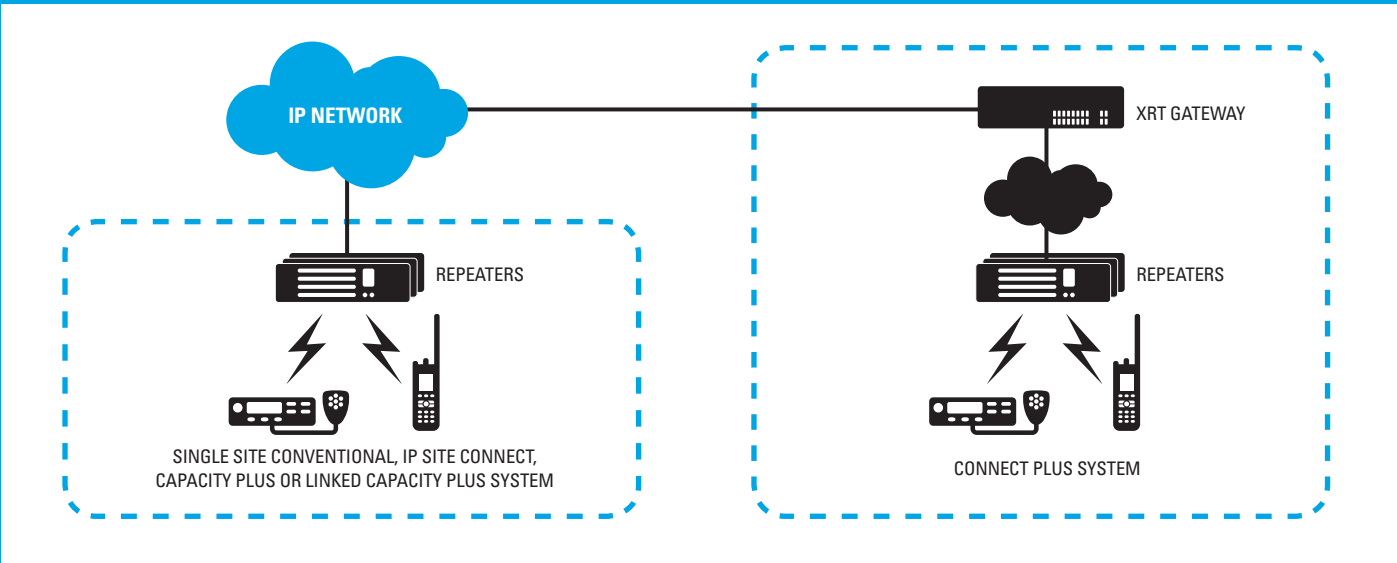
USER INTERFACE

GPS POSITIONING, LONE WORKER ALARM

QUICK COMMANDS

MORE CONTROL, IMPROVED DISPATCHING AND AUTOMATION OF DAILY TASKS. GET MORE FROM YOUR MOTOTRBO RADIO SYSTEM.

For more information on how to enhance operational efficiency and improve staff safety with TRBOnet PLUS visit www.motorolasolutions.com/mototrbo or find your closest Motorola representative or Authorised Partner at www.motorolasolutions.com/contactus

MOTOROLA