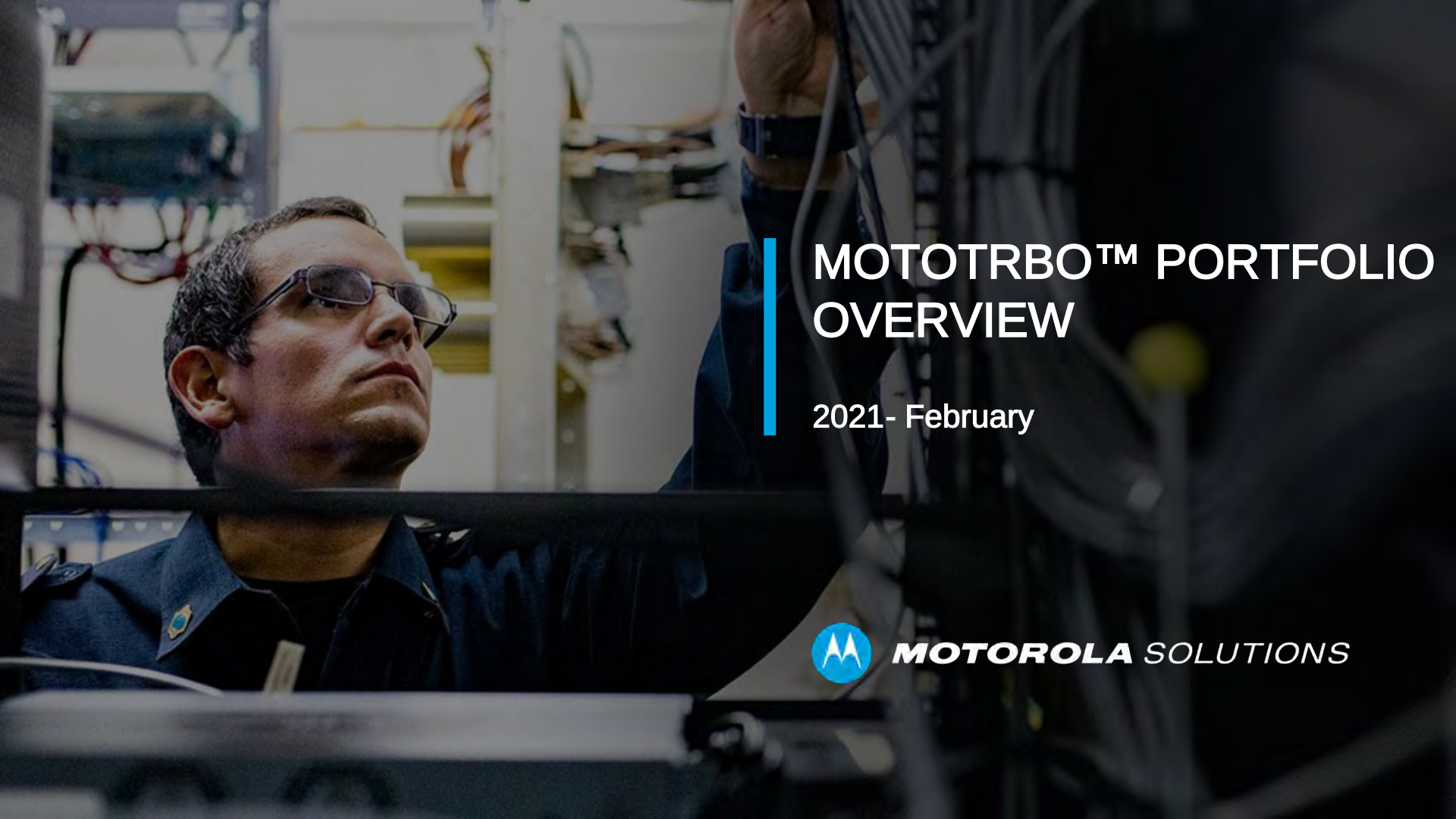


A man in a dark blue uniform and safety glasses is working on a server rack. He is looking up and to the right, focused on his task. The background shows more server racks and cables.

MOTOTRBO™ PORTFOLIO OVERVIEW

2021- February



MOTOROLA SOLUTIONS

I INTRODUCING MOTOTRBO



Comprehensive

A comprehensive digital two-way radio solution for professional and commercial communications



Flexible

Supports analogue and digital modes of operation



Standardised

Built on the ETSI DMR standard



Secure

Instantaneous, private and secure communications for the whole organization



Connected

Supports voice, data, text, GNSS, telemetry and apps



Digital Mobile Radio

STANDARDS BASED, FUTURE READY SOLUTIONS

Globally recognised ETSI DMR standard

- Widely backed by industry leading radio manufacturers
- Most widely deployed digital two-way radio technology for professional users globally
- Open standard assures long-term viability
 - Tier I: low power, license-exempt 446MHz band
 - Tier II: licensed conventional high-power communications
 - Tier III: trunking operation



ETSI DMR Standard Documents

TR 102 398

General System Design

TS 102 36-1

Part 1: DMR Air Interface (AI) protocol

TS 102 36-2

Part 2: DMR voice and generic services

TS 102 36-3

Part 3: DMR data protocol

TS 102 36-4

Part 4: DMR trunking protocol



MOTOTRBO

VERTICAL MARKETS

COMMERCIAL USERS

- Retail, Hospitality, Agriculture, Private Security, Manufacturing, Warehousing, Logistics, Construction, Education, Public Transportation, Port/ Airports, Utilities, Petrochemical, Local Government

PUBLIC SAFETY USERS

- Search & Rescue, Fireground, Incident Teams, Local/ Municipal Police, Military



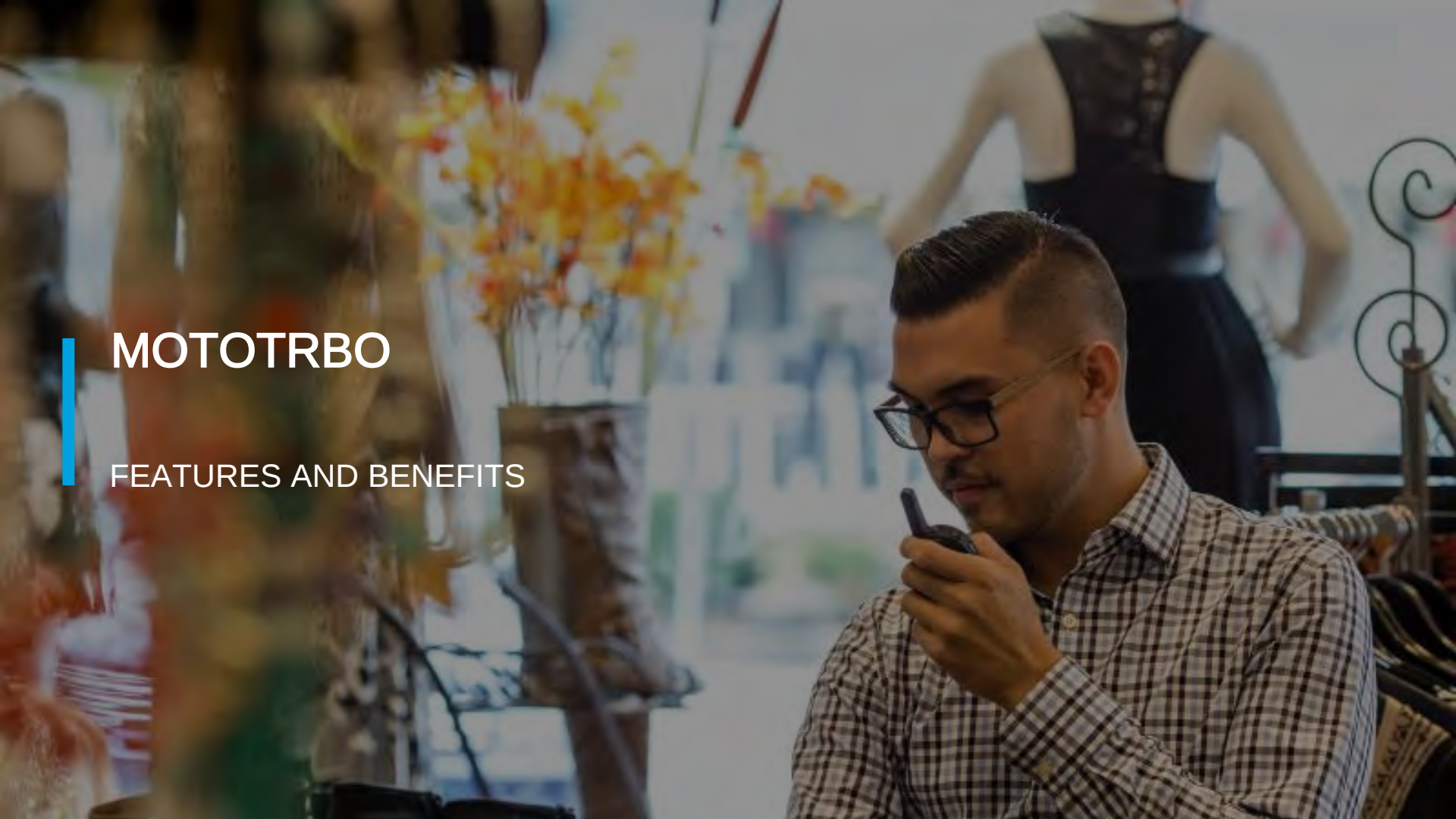


MOTOROLA SOLUTIONS MOTOTRBO

INDUSTRY-LEADING AND EXPERIENCED

- Every day, our enterprise and public safety customers rely on effortless and reliable communications to keep business thriving and communities safe
- With over 90 years experience in radio communications, Motorola Solutions has the knowledge to keep your business communications working
- Our wide-ranging end-to-end platforms work together seamlessly to increase efficiency



A man with short dark hair, glasses, and a mustache is wearing a black and white checkered button-down shirt. He is holding a black mobile phone to his ear with his right hand. He is looking down at the phone. The background is a blurred retail environment with a mannequin wearing a black dress, a vase of yellow and orange flowers, and other store fixtures.

MOTOTRBO

FEATURES AND BENEFITS



TWO WAY RADIO

BENEFITS

- Instantaneous communication
 - No waiting for dial tone or connection delays
- Rugged, dependable devices
 - Designed for tough environments
- Reliable availability
 - Radio system designed to meet user needs
- Manageable cost of ownership
 - No call charges or subscriptions
- Customised solutions
 - Smart accessories
 - Applications





TWO WAY RADIO

BETTER BASICS

- Enhanced audio quality
 - Hear messages more clearly
- Greater coverage
 - Communicate more reliably over greater area
- Double call capacity
 - Reduced licensing and infrastructure costs
 - Reduced likelihood of missed calls
- Longer battery runtime
 - Radio works when it's needed
- Secure communications
 - Improved system integrity
 - Privacy encryption prevents eavesdropping





TWO WAY RADIO

ADVANCED CAPABILITY

- Advanced features
 - Calling - 1-to-1, 1-to-many, 1-to-all
 - Caller ID
 - Noise Cancellation
 - Intelligent Audio
 - Lone Worker
 - Man-down
 - Transmit Interrupt
 - Over-the-air programming
 - Voice announcement
- Built-in modem
 - Supports data applications
- Telemetry
 - Monitor and operate equipment remotely





TWO WAY RADIO

ADVANCED CAPABILITY

- Location Tracking (option)
 - Wide-area and indoor location for security and operational efficiency
 - Integrated GPS/GLONASS
 - Bluetooth® and iBeacons
- Text messaging
 - Non-verbal communication
 - Job ticketing
- Diverse applications
 - Wide Developer community to meet user requirements

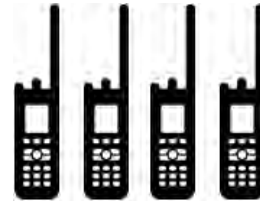
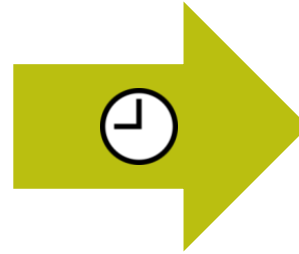
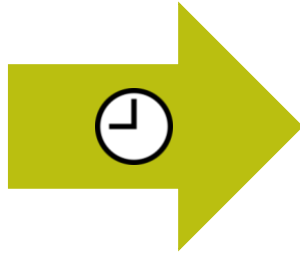
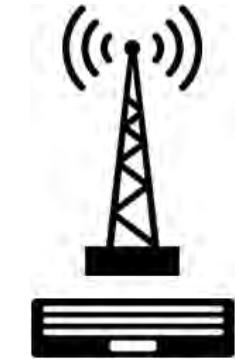


MOTOTRBO DURABILITY

- **MOTOTRBO radios and accessories are designed to keep operating in extreme conditions**
- **Every design must pass Motorola Solutions Accelerated Lifetime Testing (ALT)**
 - Simulates 5 years of hard use
 - Anticipates 15 year design life
- **Radios are designed to withstand**
 - Drops: Multiple 122 cm drops on all sides onto concrete
 - Low temperatures: Operation down to -20°C
 - Thermal shocks: Multiple cycles from -57°C to +80°C
 - Impacts: Multiple 115 g objects dropped from 1m
 - Water: Jets of water from all directions for 30 mins
 - Dust: 28 hours of fine blown dust
 - Cable strains: Multiple 1 minute, 18 kg pulls on accessory cables
 - Electric shocks: Up to 15 kV discharges
- **Tightly sealed against dust and moisture**



■ MIGRATION FROM ANALOGUE



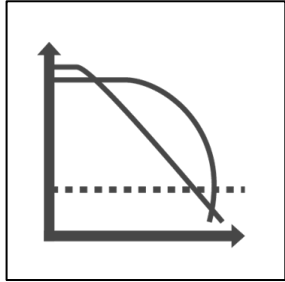
Legacy analogue Radios
Legacy analogue System

Mixed analogue and digital radios
Dynamic Mixed Mode system

Modern digital radios
Modern digital system



I MOTOTRBO BENEFITS



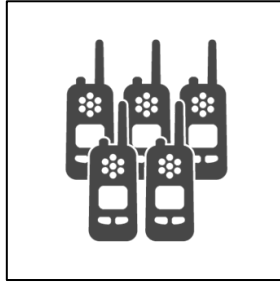
RANGE

Intelligible speech over a larger area



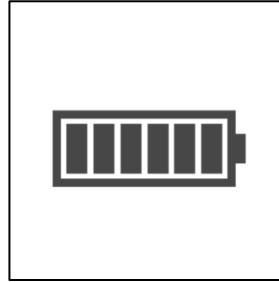
AUDIO

Crisp and clear, even in fringe coverage areas



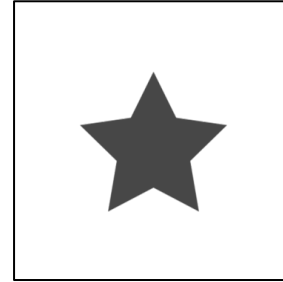
CAPACITY

Twice the calling capacity of analogue radio in the same RF channel



TALK TIME

Up to 40% longer battery life than analogue radio



FEATURE

Increased opportunity for innovation



APPS

Integration with workplace applications





MOTOTRBO SYSTEMS AND INFRASTRUCTURE

MOTOTRBO SYSTEMS

SINGLE SITE	IP SITE CONNECT	CAPACITY PLUS	CAPACITY MAX
CONVENTIONAL		TRUNKING	
DMR TIER II	DMR TIER II + ADDITIONAL FEATURES		DMR TIER III
			
1 SITE	1 - 15 SITES	1 - 15 SITES	1 - 250 SITES
			
Up to 200 users*	Up to 200 users*	Up to 1600 users / site*	Up to 3000 users / site*



MOTOTRBO

DIRECT MODE COMMUNICATIONS

- Direct radio-to-radio communications
- Limited range, basic feature-set
- Good for small operations
 - Radios must always be within range of each other
- Only requires a single 12.5kHz channel
 - Additional channels can be provisioned
- Supports MOTOTRBO Dual Capacity Direct Mode
 - Allows two independent calls on a single channel
- Supports voice, data, text, telemetry
- Supports Applications (Control station implementation only)
- Individual channels can be configured for analogue operation

SINGLE LOCATION



FEW USERS

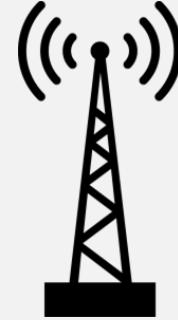


MOTOTRBO

SINGLE SITE CONVENTIONAL COMMUNICATIONS

- Radio communications through a **repeater**
- Baseline range and feature-set
- Ideal for small to medium operations:
 - Single building, small campus or factory
- **Repeater** improves communication quality:
 - Improved error correction and interference management
 - Higher power and sensitivity
- Supports Applications
 - Control station or MOTOTRBO Network Interface Service (MNIS) repeater interface
- Dynamic Mixed Mode allows integration of analogue radios
- Extended Range Direct Mode
 - Increased coverage using repeater, even when limited to a single frequency

SINGLE SITE



UP TO 200 USERS

*Maximum capacity, based on standardised call model





SLR 5500 (VHF, UHF, 300MHz)



SLR 8000 (VHF, UHF)



SLR 1000 (VHF, UHF)

MOTOTRBO

SLR REPEATERS

- The heart of your MOTOTRBO system
- Provides a wide umbrella of communications coverage
 - Error correction increases range, reliability and quality
- Dynamic Mixed Mode integrates analogue and digital radios
- High performance
 - Up to 100% duty cycle
 - High receiver sensitivity, high reliability
 - Compatible with all MOTOTRBO system types
- High efficiency
 - Slim and compact
 - Low power consumption
 - Excellent serviceability
- Installation options
 - Freestanding / rack mount: SLR 5500, SLR 8000
 - Pole or wall mount: SLR 1000

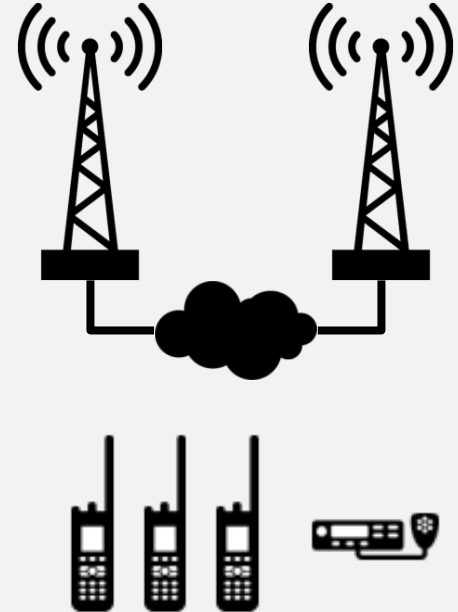


MOTOTRBO

IP SITE CONNECT COMMUNICATIONS

- Coverage solution using multiple repeaters linked over IP
- Ideal for:
 - Connecting multiple separate facilities
 - Providing good coverage in difficult terrain
 - Deploying a multi-frequency-band system
- Users can communicate seamlessly across sites
- Radios can roam between sites without changing channels
- Offers similar capacity to single site conventional system
- IPv4 interconnect, supports operation over VPN
- RDAC tool allows remote management of repeaters

UP TO 15 SITES

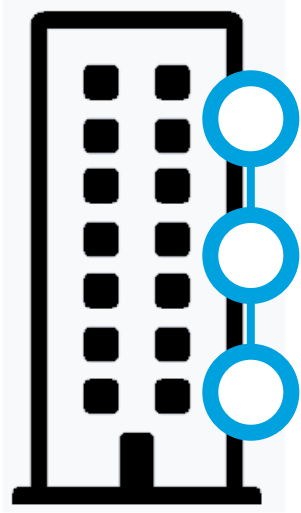


UP TO 200 USERS

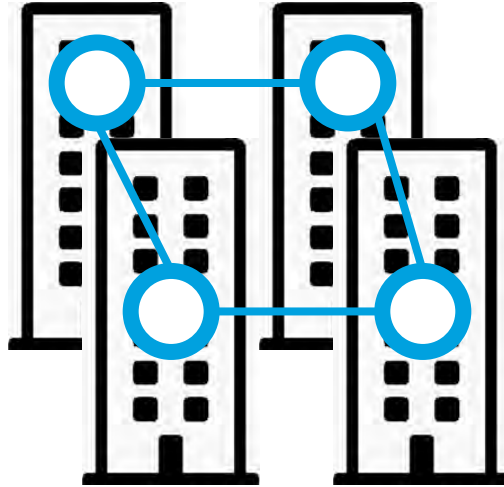
*Maximum capacity, based on standardised call model



IP SITE CONNECT CONFIGURATIONS



Multiple Repeaters,
Single Location

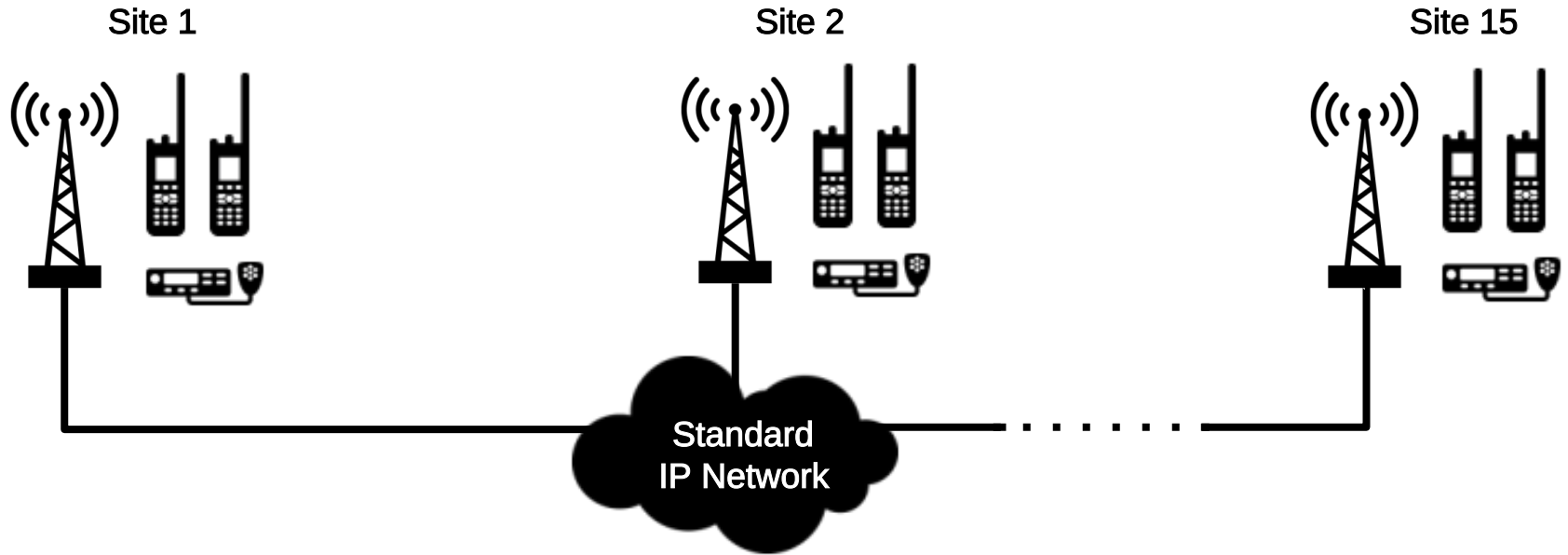


Large Campus



Multiple Locations,
Geographically Dispersed

IP SITE CONNECT ARCHITECTURE

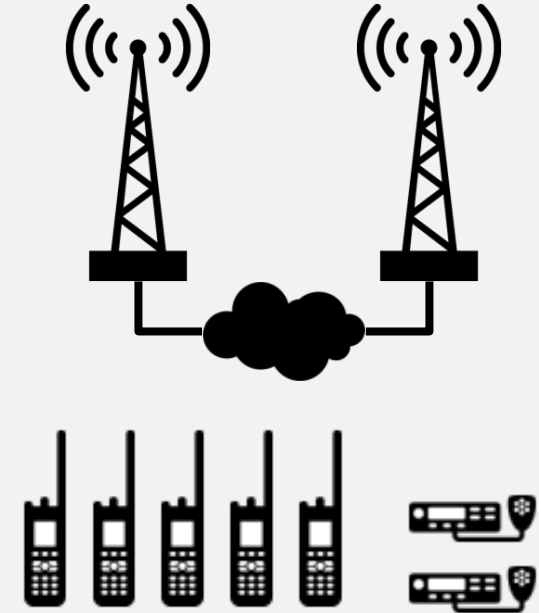


MOTOTRBO

CAPACITY PLUS COMMUNICATIONS

- Single and multi-site capacity and coverage solution
 - Multi-site previously called Linked Capacity Plus
- Ideal for a large business with multiple facilities linked over IP
- Implements **Dynamic Trunking** for efficient communications
- High coverage and capacity:
 - Up to 15 sites
 - Up to 8 voice and data repeaters per site
 - Up to 12 additional data-only repeaters per site
 - Max 12 total repeaters per site (20 for single site)
- No controller required, just linked repeaters
- IPv4 interconnect, supports operation over VPN
- Wireline integration option for WAVE
- Includes **Digital Voting** coverage enhancement

UP TO 15 SITES



UP TO 1600 USERS PER*SITE

*Maximum capacity, based on standardised call model



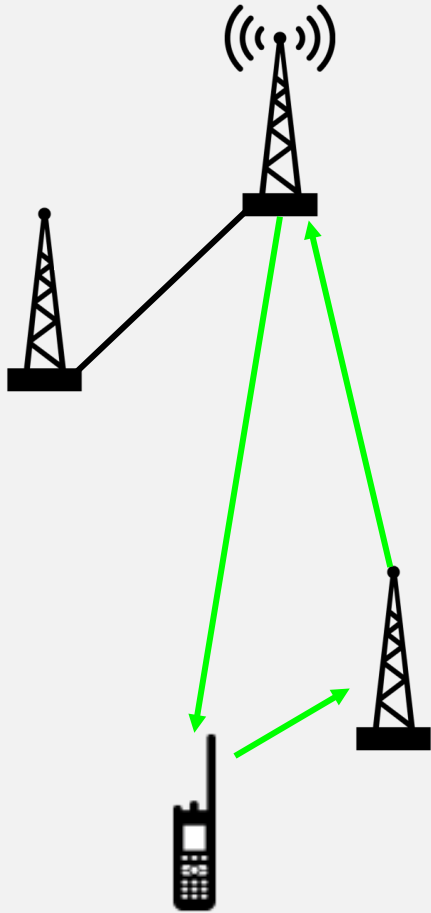


MOTOTRBO

DYNAMIC TRUNKING

- Innovative pooling of radio channel resources
 - All radios occupy a “rest channel”
 - When a new call starts, it uses the rest channel
 - All radios not included in the call go to a new “rest channel”
- Flexible and efficient
 - No separate controller is needed
 - System is easy to plan and deploy
 - A repeater failure only affects capacity, not connectivity
 - Capacity is added simply by adding repeaters
- Exclusive to MOTOTRBO systems
 - Implemented on Capacity Plus single and multi-site





MOTOTRBO

DIGITAL VOTING

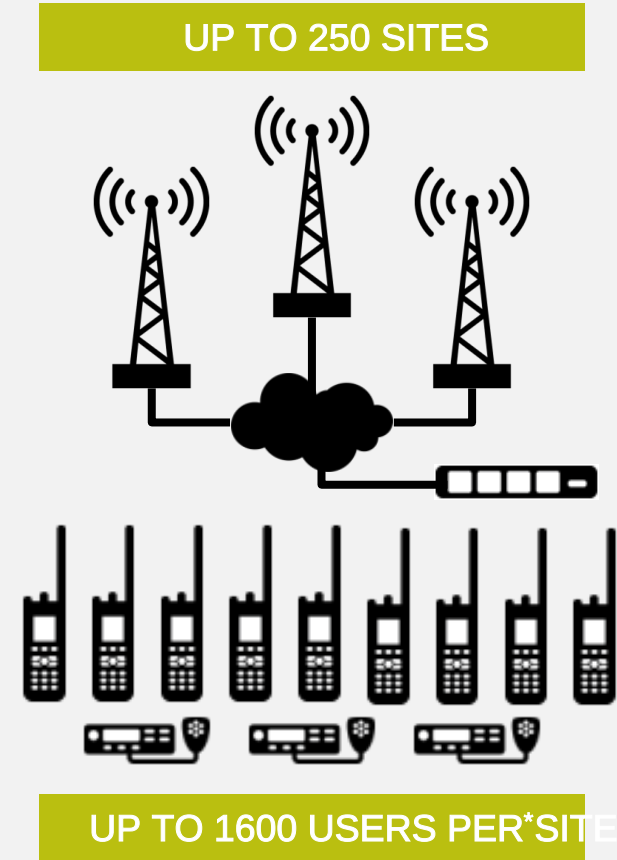
- System coverage is generally limited by radio “talk-back” range (power of the radio) rather than repeater “talk-out” range (power of the repeater)
- Digital Voting introduces extra receive-only repeaters:
 - The “Master Repeater” analyzes the signals received from the “Satellite Repeaters” and selects (votes) on which one to repeat
- Coverage is improved without the cost of extra transmitter frequencies
- Satellite sites are lower cost to implement, as they need less power, fewer antennas and lower bandwidth connections



MOTOTRBO

CAPACITY MAX COMMUNICATIONS

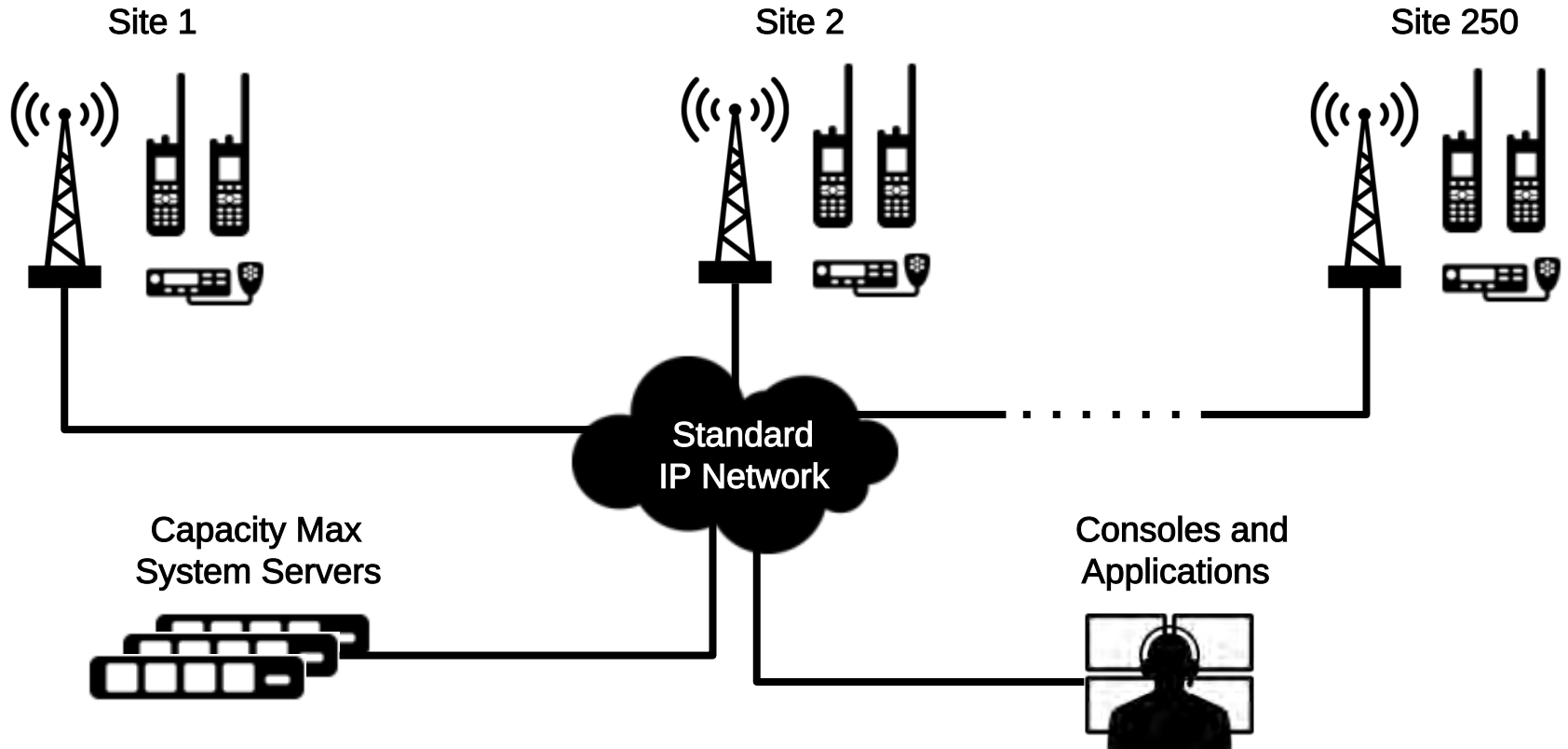
- DMR Tier III mode of operation
- Full trunking, system linked over IP
 - Dedicated trunking channel on every site
 - Centralised control server
 - Centralised fault and performance management
 - Optimised routing for signalling and traffic
- High coverage and capacity:
 - Up to 250 sites
 - Up to 15 voice and data repeaters per site
 - Up to 6 additional data-only repeaters per site
 - Redundancy for any repeater is supported
- Ideal for a large business with multiple facilities
- High security, high resiliency
- IP interconnect, with optional VPN



*Maximum capacity, based on standardised call model



■ CAPACITY MAX ARCHITECTURE





CAPACITY MAX

SYSTEM SERVER

Contains the system level functions

- Trunking Controller
 - Resource Management, Call Control, Registration, Authentication
- System Advisor Server
 - System Fault Management and Call Monitoring
- MOTOTRBO Network Interface Service (MNIS) Voice/Radio Command (VRC) Gateway

Supports up to 100 voice talkpaths

- Expansion servers may be provisioned

Provides high availability platform

- Includes dual power supplies and RAID disk architecture

Includes embedded software update and backup/restore application



MOTOTRBO CAPACITY MAX

SERVER RESILIENCY

Server Resiliency

- Optional redundant servers, geographically-separated if required
- If no Trunk Controller is available, sites will function autonomously

Gateway Resiliency

- Both VRC and Data Gateways support redundancy options

IP Network Resiliency

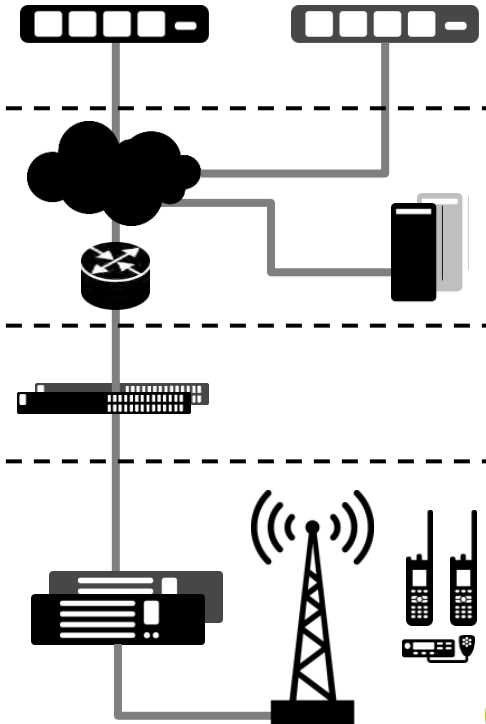
- Optional second switch per site

Site Repeater Rollover

- Control channel will rollover on failure (up to 4 channels)
- Redundant control channel repeaters can be provisioned at each site

You can have a centralised server and redundancy at the same time

NO SINGLE POINT OF TRUNKING FAILURE





MOTOTRBO CAPACITY MAX

EXTENSIVE DATA COMMUNICATIONS

- Up to 6 additional data repeaters per site
- Track and monitor your fleets or workers
 - GPS/GLONASS and indoor location tracking
- Increase the efficiency and accountability of your team
 - Work tickets
- Control important operations remotely
 - Alarm management
- Monitor and track sensors, automate responses
 - IIoT/SCADA
- Tailored to your data needs
 - Leverage our ADP program to find additional solutions



MOTOTRBO CAPACITY MAX

MANAGEMENT AND MONITORING

Centralised Configuration Management

- Radio Management 2.0
- Logical structure of system, infrastructure, and devices
- Generates repeater and radio codeplugs

Centralised Fault / Performance Management

- System Advisor
- Alarm and event management
- Real-time call monitoring

Battery Management

- IMPRES™ Over-the-Air Battery Management



MOTOTRBO CAPACITY MAX

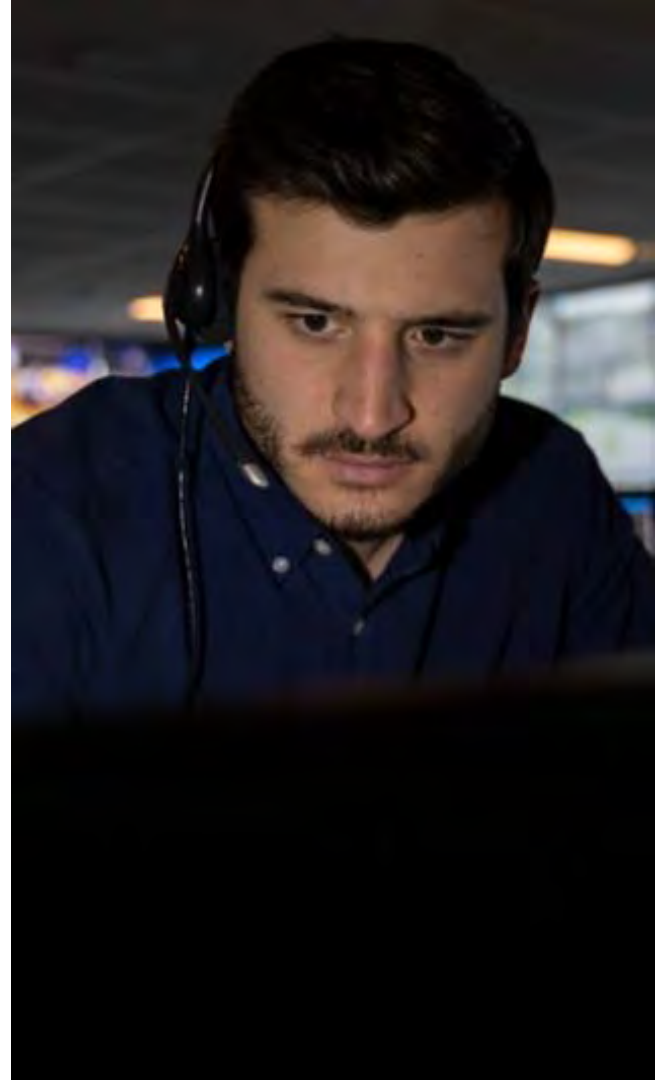
MANAGEMENT AND MONITORING

SmartPTT PLUS

- Dispatch software application for all MOTOTRBO radio networks
- Windows-based
- Voice dispatch, texting, job ticketing, and event logging as standard
- GPS location, indoor location, voice recording, interoperability, SCADA, telephone interconnect, and a web client for remote system access as options

TRBOnet Plus

- IP-based dispatch application for all MOTOTRBO radio networks
- Voice dispatch, texting, job ticketing, alarm, lone worker, fleet administration, telemetry, and event logging as standard
- GPS location, indoor location, voice recording, telephone interconnect, RF coverage monitoring, AES encryption, and a web client for remote system access as options





MOTOTRBO CAPACITY MAX

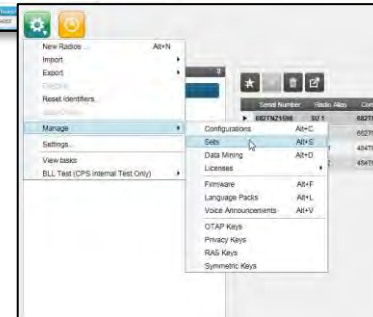
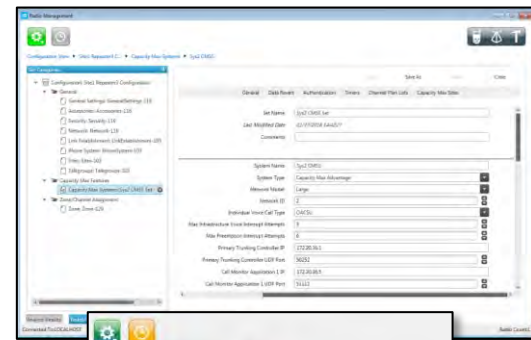
RADIO MANAGEMENT 2.0

Professional system configuration management

- Radio and infrastructure programming, with all information stored in database on a central server for faster, repeatable, low error programming
- Wi-Fi® and/or over-the-air programming for radio no-touch updates and IP-network based programming for repeaters and the CMSS

Delivers improved capability

- Configuration of radios, repeaters, gateways, and controllers
- License management for all features, including those on the CMSS
- Can partially auto-generate radio and repeater codeplugs



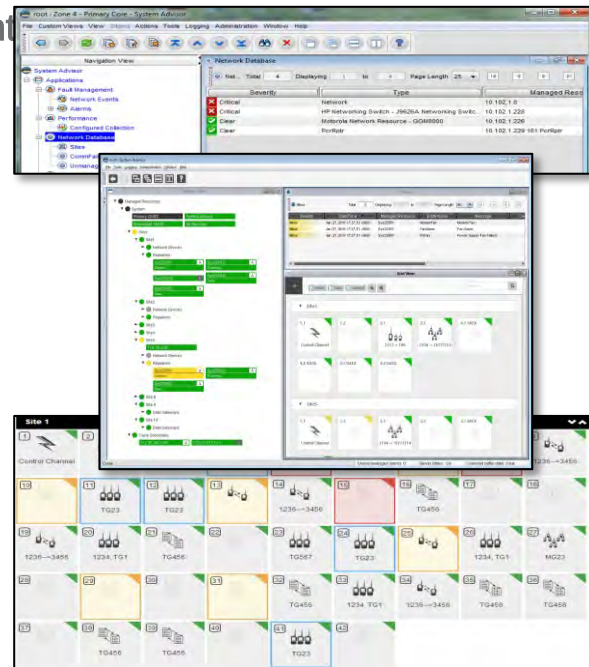


MOTOTRBO CAPACITY MAX

SYSTEM ADVISOR

Comprehensive fault management

- Optimised for use with radio systems providing intuitive views of system health
- Provides details status of all devices in the Capacity Max infrastructure
- Provides multiple views and filters of faults to quickly identify and isolate problems



Integrated call activity monitor

- Critical real-time visual monitor of channel utilisation
- Reduces effort required for troubleshooting of performance issues



MOTOTRBO SUBSCRIBER
DEVICES

■ MOTOTRBO DEVICES PORTFOLIO





MOTOTRBO DP1400

RUGGED AND SIMPLE FOR THE EVERYDAY USER WHO
NEEDS TO STAY CONNECTED

- Simple voice-only portable radio
- Analogue-only or dual analogue/digital models available
- Tough, rugged, dependable
- Easy migration path from analogue radio
- High-efficiency features
- Compatible with MOTOTRBO feature-set

☒	Direct	☒	Conventional	☐	IP Site Connect	☐	Capacity Plus	☐	Capacity Max
----------------------------------	--------	----------------------------------	--------------	-----------------------	-----------------	-----------------------	---------------	-----------------------	--------------



I MOTOTRBO DP1400 DETAILS

Specification

Dimensions with battery:

128 x 62 x 42 mm (NiMH 1400mAh)

128 x 62 x 39 mm (Li-Ion 1600mAh)

128 x 62 x 44 mm (Li-Ion 2200mAh)

Bands

VHF (136-174 MHz)

UHF (403-470 MHz)

Transmitter Power

1 or 5W (VHF)

1 or 4W (UHF)

Capacity:

32 Channels

Battery Life (analogue/digital)

9.0 / 11.5 hours (NiMH 1400 mAh)

10.5 / 13.5 hours (Li-Ion 1600 mAh)

14.5 / 18.5 hours (Li-Ion 2200 mAh)

Dust and water rating

IP54

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 2 Programmable Buttons





MOTOTRBO SL1600

SLIM AND PORTABLE FOR THE CUSTOMER SERVICE
USER WHO WANTS INTUITIVE TECHNOLOGY

- Slim, lightweight voice-only radio
- Elegant ergonomics for easy use
- Rugged and reliable
- Advanced technology for high performance
- “Active View” display
- Award-winning design

☒	Direct	☒	Conventional	☒	IP Site Connect	☐	Capacity Plus	☐	Capacity Max
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I MOTOTRBO SL1600 DETAILS

Specification

Dimensions with battery

126 X 55 X 22 mm

169g (VHF)

166g (UHF)

Bands

VHF (136-174 MHz)

UHF (403-470 MHz)

Transmitter Power

1 or 2W (analogue)

1 or 3W (digital)

Capacity

99 Channels

Battery Life (analogue/digital)

11.8 / 14.0 hours

Dust and water rating

IP54

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 1 Programmable Button scrolls up to 7 Features



SL1600 ACTIVE VIEW DISPLAY



Channel
Alias

Channel
Alias
Scrolling

Channel
Number

Volume
Level

Battery
Charged



Tones On

Tones Off

Display
Brightness

Voice
Announcement
On

Power Level
High

AN INNOVATIVE WAY TO COMMUNICATE IMPORTANT RADIO INFORMATION

CRISP AND CLEAR

- LED matrix: No glare or reflections
- Displays important information in large characters
- Longer messages scroll across screen

DURABLE

- LEDs are protected by radio casing
- Display is unaffected by scratches and dust

ENERGY EFFICIENT

- Display shuts off when not in use to conserve battery life





DM1400



DM1600

MOTOTRBO DM1000 SERIES

RUGGED AND SIMPLE FOR THE EVERYDAY USER WHO NEEDS TO STAY CONNECTED

- Simple voice-only mobile radios
- Tough, rugged, dependable
- Efficiency features
- Compatible with MOTOTRBO feature-set
- Numeric or alphanumeric display

☒	Direct	☒	Conventional	☐	IP Site Connect	☐	Capacity Plus	☐	Capacity Max
----------------------------------	--------	----------------------------------	--------------	-----------------------	-----------------	-----------------------	---------------	-----------------------	--------------



I MOTOTRBO DM1000 SERIES DETAILS

Specification

Dimensions

44 x 169 x 134 mm, 1.3kg

Bands

VHF (136-174 MHz)

UHF (403-470 MHz)

Transmitter Power

1-25 W or 25-45 W (VHF)

1-25 W or 25-40 W (UHF)

Capacity

16 Channels (DM1400)

160 Channels (DM1600)

Audio Output

4W (internal speaker)

7.5 W (external 8 Ω speaker)

13 W (external, 4 Ω speaker)

Dust and water rating

IP54

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 2 Programmable Buttons (DM1400)
- 4 Programmable Buttons (DM1600)





DP2400e



DP2600e

MOTOTRBO DP2000e SERIES

A PERFECT BALANCE FOR THE BUSY WORKER WHO NEEDS EFFECTIVE COMMUNICATIONS

- Affordable digital system radio
- Rugged and compact
- Plain and display/limited keypad models
- Optional TIA4950 HazLoc certification

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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| MOTOTRBO DP2000e SERIES DETAILS

Specification

Dimensions with battery

122 x 56 x 36mm

265 g (DP2400e)

282 g (DP2600e)

Bands

VHF (136-174 MHz)

UHF (403-527 MHz)

300MHz (300-360 MHz) (DP2400e)

Transmitter Power

1 or 4W(UHF, 300MHz)

1 or 5W(VHF)

Capacity:

32 Channels (DP2400e)

128 Channels (DP2600e)

Battery Life (analogue / digital)

Up to 21 / 28.5 hours (VHF)

Up to 21 / 27.5 hours (UHF, 300MHz)

Dust and water rating

IP67





I MOTOTRBO DP2000e SERIES DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 2 Programmable Buttons (DP2400e)
- 4 Programmable Buttons (DP2600e)
- IMPRES Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF)





MOTOTRBO SL2600

SLIM AND PORTABLE PERFECTLY SUITED FOR BUSINESS
INSTANT COMMUNICATION, PROFESSIONAL STYLE

- Slim, lightweight stylish radio
- Elegant ergonomics for easy use
- Rugged and reliable
- Advanced technology for high performance
- Virtual 4 button keypad and display
- Integrated Bluetooth and Wi-Fi

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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I MOTOTRBO SL2600 DETAILS

Specification

Dimensions with battery:

126 x 55 x 23mm

190g

Bands

VHF (136-174 MHz)

UHF (403-480 MHz)

Transmitter Power

1 or 2W(analogue)

1 or 3W(digital)

Capacity

256 Channels

Battery Life (analogue / digital)

Up to 11 / 13.5 hours

Dust and water rating

IP54





I MOTOTRBO SL2600 DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 1 Programmable Button
- SINC+ (optional)
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Covert Mode
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Indoor Location Tracking (optional)
- Bluetooth 4.0 Audio and Data



MOTOTRBO DM2600

A PERFECT BALANCE FOR THE BUSY WORKER WHO
NEEDS EFFECTIVE COMMUNICATIONS



DM2600

- Mobile companion to DP2000 Series
- Affordable digital system radio
- Rugged and compact
- Available in VHF and UHF bands

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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MOTOTRBO DM2600 DETAILS

Specification

Dimensions

44 x 169 x 134 mm

1.3 kg

Bands

VHF (136-174 MHz)

UHF (403-470 MHz)

Transmitter Power

1-25 W or 25-45 W (VHF)

1-25 W or 25-40 W (UHF)

Capacity

256 Channels

Audio Output

4W (internal speaker)

7.5 W (external 8 Ω speaker)

13 W (external, 4 Ω speaker)

Dust and water rating

IP54





I MOTOTRBO DM2600 DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 4 Programmable Buttons
- SINC+ (optional)
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF)
- Telemetry Support (4 I/O Pins, 3 Buttons)





DP3441e



DP3661e

MOTOTRBO DP3000e SERIES

COMPACT AND RUGGED FOR THE MOBILE PROFESSIONAL WHO NEEDS EFFECTIVE COMMUNICATION

- High-performance compact portable
- Supports voice, data, text and apps
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi, Bluetooth 4.0 and GNSS
- Plain and colour display/limited keypad models
- IMPRES audio and energy compatible
- Full suite of accessories
- Optional TIA4950 HazLoc certification

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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■ MOTOTRBO DP3000e SERIES DETAILS

Specification

Dimensions:

100 x 55 x 30 mm, 254 g (DP3441e)

100 x 55 x 36 mm, 290 g (DP3661e)

Bands

VHF (136-174 MHz)

UHF (403-512 MHz)

Transmitter Power

1 or 5 W(VHF)

1 or 4 W(UHF)

Capacity

32 Channels (DP3441e)

1000 Channels (DP3661e)

Battery Life (Analogue / Digital)

20.5 / 27.5 hrs

Dust and water rating

IP68



| MOTOTRBO DP3000e SERIES DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 2 Programmable Buttons (DP3441e)
- 4 Programmable Buttons (DP3661e)
- IMPRES Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated GPS/GLONASS
- Integrated Wi-Fi
- Bluetooth 4.0 Audio and Data
- Dedicated Orange Emergency Button
- Option Board Compatible
- Indoor Location Tracking (optional)
- Integrated Accelerometer for Mandown





MOTOTRBO DP4000e SERIES

TOTAL CONNECTIVITY FOR THE SKILLED PROFESSIONAL WHO REFUSES TO COMPROMISE

- Total connectivity, portable radio
- Supports voice, data, text and apps
- Digital signalling only
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi and Bluetooth 4.0
- Colour screen and full keypad
- Model available with built in option board
- Full suite of accessories

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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■ MOTOTRBO DP4000e SERIES DETAILS

Specification

Dimensions:

130 x 55 x 34 mm, 295 g (DP440*e)

130 x 55 x 36 mm, 330 g (DP460*e/DP480*e)

Bands

VHF (136-174 MHz)

UHF (403-527 MHz)

300 (DP4401e, DP4801e only) (300-360 MHz)

Transmitter Power

1 or 4W(UHF, 300MHz)

1 or 5 W(VHF)

Capacity

32 Channels (DP440*e)

1000 Channels (DP460*e/DP480*e)

Battery Life (Analogue / Digital)

21.5 / 28.0 hours (UHF, 300MHz)

21.5 / 29.0 hours (VHF)

Dust and water rating

IP68



| MOTOTRBO DP4000e SERIES DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Freeform Texting (DP480*e)
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 3 Programmable Buttons (DP440*e)
- 5 Programmable Buttons (DP460*e/DP480*e)
- Dedicated Orange Emergency Button
- Vibrate Alert (optional)
- IMPRES Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated GPS/GLONASS (optional)
- Integrated Wi-Fi (optional)
- Bluetooth 4.0 Audio & Data (optional)
- Option Board Compatible
- Indoor Location Tracking (optional)
- Integrated Accelerometer for Mandown
- Telemetry Support (3 I/O Pins, 3 Buttons)





MOTOTRBO SL4010e

SLEEK AND SMART FOR THE BUSINESS LEADER WHO NEEDS COMPLETE CONTROL

- Slim portable radio
- Supports voice, data, text and apps
- Digital signalling only
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi and Bluetooth 4.0
- Colour screen and full keypad
- Full suite of accessories

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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■ MOTOTRBO SL4010e DETAILS

Specification

Dimensions:

121 x 55 x 17 mm, 154 g

Bands

UHF (403-470 MHz)

Transmitter Power

1, 2 or 3 W(UHF)

Capacity

1000 Channels

Battery Life

14.3 hours

Dust and water rating

IP54



■ MOTOTRBO SL4010e DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Freeform Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 2 Programmable Buttons
- Dedicated Orange Emergency Button
- Vibrate Alert
- Covert Mode
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch
- Transmit Interrupt
- Enhanced Privacy
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated Wi-Fi
- Integrated Accelerometer for Mandown
- Telemetry Support (3 Buttons)





MOTOTRBO ATEX RADIOS

TOUGH AND SAFE FOR THE PROFESSIONAL WHO NEEDS ATEX PROTECTION

- High-performance ATEX portable radio
- ATEX Certification
- IEC Ex Certification
- Supports voice, data, text and apps
- Compatible with all MOTOTRBO system types
- Plain and full keypad models
- IMPRES audio and energy
- ATEX/IEC Ex suite of accessories

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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| MOTOTRBO ATEX RADIO DETAILS

Specification

Dimensions:

138 x 57 x 38 mm, 456 g (DP4401 Ex)

138 x 57 x 40 mm, 482 g (DP4801 Ex)

Bands

VHF (136-174 MHz)

UHF (403-470 MHz)

Transmitter Power

1W(VHF, UHF)

Capacity

32 Channels (DP4401 Ex)

1000 Channels (DP4801 Ex)

Battery Life (Analogue / Digital)

16.0 / 19.0 hours (VHF, UHF)

Dust and water rating

IP67

Approvals

ATEX Gas:

Class II 2G Ex ib IIC T4 Gb

ATEX Dust:

Class II 2D Ex ib IIIC T130 °C Db

IEC Ex Gas:

Ex ib IIC T4 Gb

IEC Ex Dust:

Ex ib IIIC T130°C Db



| MOTOTRBO ATEX RADIO DETAILS

Features

- Dedicated Orange Emergency Button
- 3 Programmable Buttons (DP4401 Ex)
- 5 Programmable Buttons (DP4801 Ex)
- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Freeform Texting (DP4801 Ex)
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- Integrated GPS (DP4000 Ex)
- Option Board Compatible (DP4801 Ex)
- IMPRES Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch
- Transmit Interrupt
- Enhanced Privacy
- AES256 Encryption (optional)
- Over-The-Air Programming (RF)
- Integrated Accelerometer for Mandown
- Telemetry Support (3 I/O Pins, 3 Buttons)



MOTOTRBO DM4000e SERIES

TOTAL CONNECTIVITY FOR THE SKILLED
PROFESSIONAL WHO REFUSES TO COMPROMISE



DM4400e



DM4600e

- Mobile companion to DP4000e Series
- Enhanced voice, data, text and apps
- Compatible with all system types
- Integrated Wi-Fi, Bluetooth 4.0 and GPS/GLONASS
- Numeric or full colour display
- Full suite of accessories

☒	Direct	☒	Conventional	☒	IP Site Connect	☒	Capacity Plus	☐	Capacity Max
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■ MOTOTRBO DM4000e SERIES DETAILS

Specification

Dimensions:

53 x 175 x 206 mm

1.8 kg

Bands

VHF (136-174 MHz)

UHF (403-470, 450-527 MHz)

300 (DM4401e, DM4601e) (300-360 MHz)

Transmitter Power

1-25 W or 25-45 W (VHF)

1-25 W or 25-40 W (300 MHz, UHF)

Capacity

99 Channels (DM440*e)

1000 Channels (DM460*e)

Dust and water rating

IP54



I MOTOTRBO DM4000e SERIES DETAILS

Features

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Freeform Texting (with keypad mic)
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 4 Programmable Buttons
- IMPRES Audio Compatible
- SINC+ (optional)
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/ Wi-Fi)
- Integrated GPS/ GLONASS (optional)
- Integrated Wi-Fi (optional)
- Bluetooth 4.0 Audio and Data (optional)
- Option Board Compatible
- Indoor Location Tracking (optional)
- Telemetry Support (5 I/O Pins, 3 Buttons)



■ MOTOTRBO DM4000e HANDHELD CONTROL HEAD

- Option for DM4000e Series mobile radios
- Handheld user interface for mobile radio
- Full keyboard and colour screen
- Similar user experience to DP4800e
- 1.8m coiled cord can stretch to 3m
- Additional 4.9m extension cable available
- Mobile radio can be installed remotely
- Users can communicate while they move around within their vehicles
- For example: ambulance staff, delivery truck drivers





MOTOTRBO ION SMART RADIO

MOTOTRBO™ION IS OUR FIRST BUSINESS-READY COMMUNICATION DEVICE WITH ALWAYS-ON VOICE AND BROADBAND DATA CAPABILITIES.

- Android platform
- IP68 rating (2 metres, 2 hours)
- TIA4950 intrinsically safe
- DMR, 3G, 4G LTE, Wi-Fi, and Bluetooth connectivity
- Open app ecosystem
- Motorola Solutions' unified technology ecosystem
- Fast setup and updates
- Defence-in-depth security

	Direct		Conventional		IP Site Connect		Capacity Plus		Capacity Max
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I MOTOTRBO ION DETAILS

Specification

Dimensions

143 x 70 x 29 mm (without aerial)

Weight

414g (standard battery)

439g (hazloc battery)

Bands

UHF (403-537 MHz)

Transmitter Power

4W, 1W

Capacity

1000 Channels

Battery Life

17 hours (standard battery)

Dust and water rating

IP68

Operating System

Android 10

Battery Technology

IMPRES 2

Bluetooth

5.0 + LE +BR/ EDR

2x Simultaneous Connections



| MOTOTRBO ION SMART DETAILS

Features

APPS ARE ON

- Android platform
- Open app ecosystem
- Motorola Solutions' unified technology ecosystem
- Full multimedia capabilities
- Intuitive touchscreen interface

UPTIME IS ON

- Fast setup and updates
- Seamless device management
- Managed and supported services

SECURITY IS ON

- Device security
- Application security
- Data security

DEPENDABILITY IS ON

- Built for any environment
- Industry-leading audio
- Ultra-rugged touchscreen
- Customisable experience
- Long battery life
- Redesigned antenna
- TIA4950 intrinsically safe

CONNECTIVITY IS ON

- Dedicated PTT device
- Auto Network Switch*
- Full network interoperability with WAVE PTX™
- Digital Mobile Radio (DMR)
- 4G LTE
- Wi-Fi
- Bluetooth®

* Available with software release 2.0.



**MOTOTRBO
ACCESSORIES**

| MOTOTRBO ACCESSORIES

AUDIO



Choose from earpieces, headsets, remote speaker microphones (RSMs), active noise cancellation earphones.

ENERGY



Keep your communications up and running for the whole shift, with IMPRES smart batteries and chargers.

WIRELESS



A comprehensive portfolio of Bluetooth accessories to keep you connected without wires.

MOBILE



A wide range of accessories for vehicle-mounted radios, including keypad microphones, and remote mount kits.

CARRY



Keep your radio safe and conveniently to hand, with the Motorola Solutions range of cases, belt clips, belt loops and holsters.

ANTENNAS



Innovative, high technology antennas that give you great performance without getting in your way.

IMPRES AUDIO

Motorola Solutions patented technology for audio performance

- Optimal audio accessory performance
 - Loudness
 - Clarity
 - Intelligibility
- Talk loud or whisper
 - IMPRES automatically adjusts microphone gain to give consistent audio level at receiving radio
- Talk close or further away
 - IMPRES automatically adjusts microphone gain to give consistent audio level at receiving radio
- Background Noise Suppression
 - IMPRES modifies microphone gain when user speaks, lowering the sensitivity and focusing on the spoken word
 - Suppresses background noise, resulting in clearer transmissions





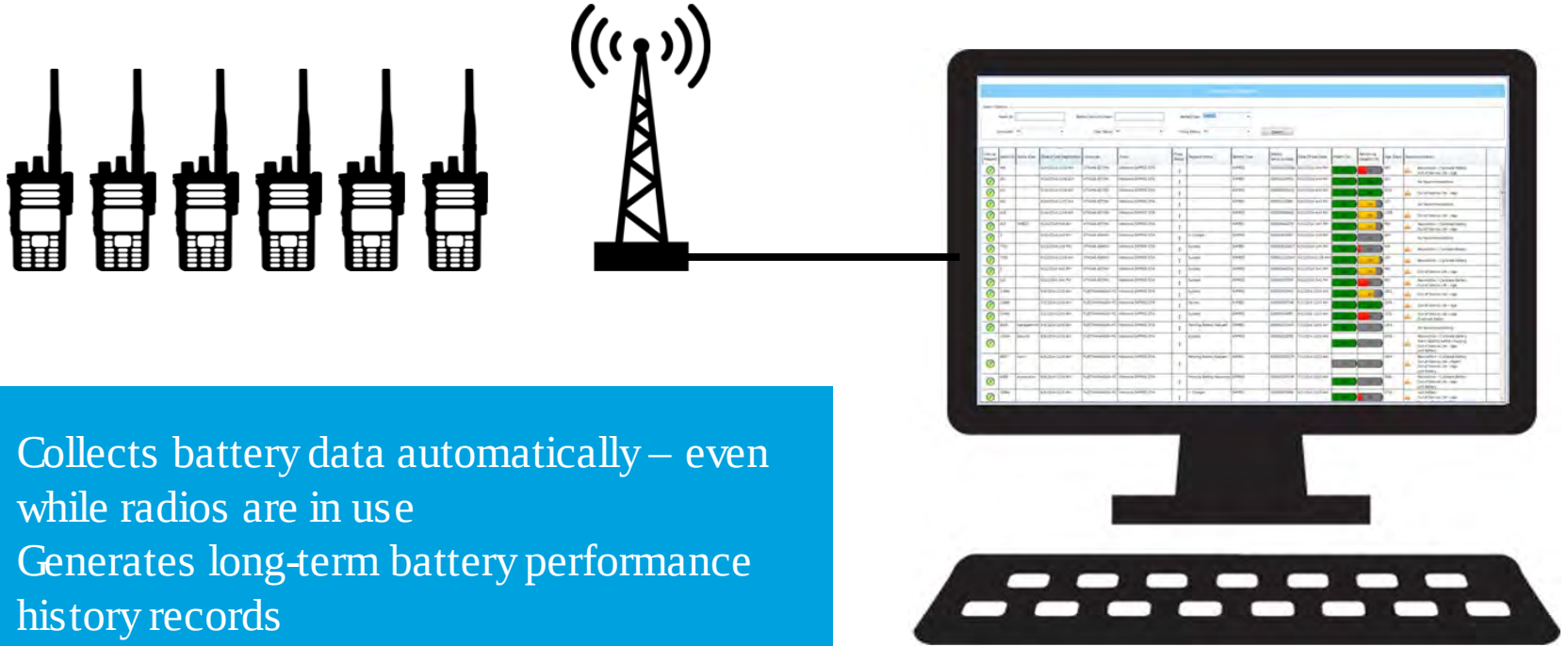
IMPRES ENERGY

Motorola Solutions patented technology for battery lifecycle

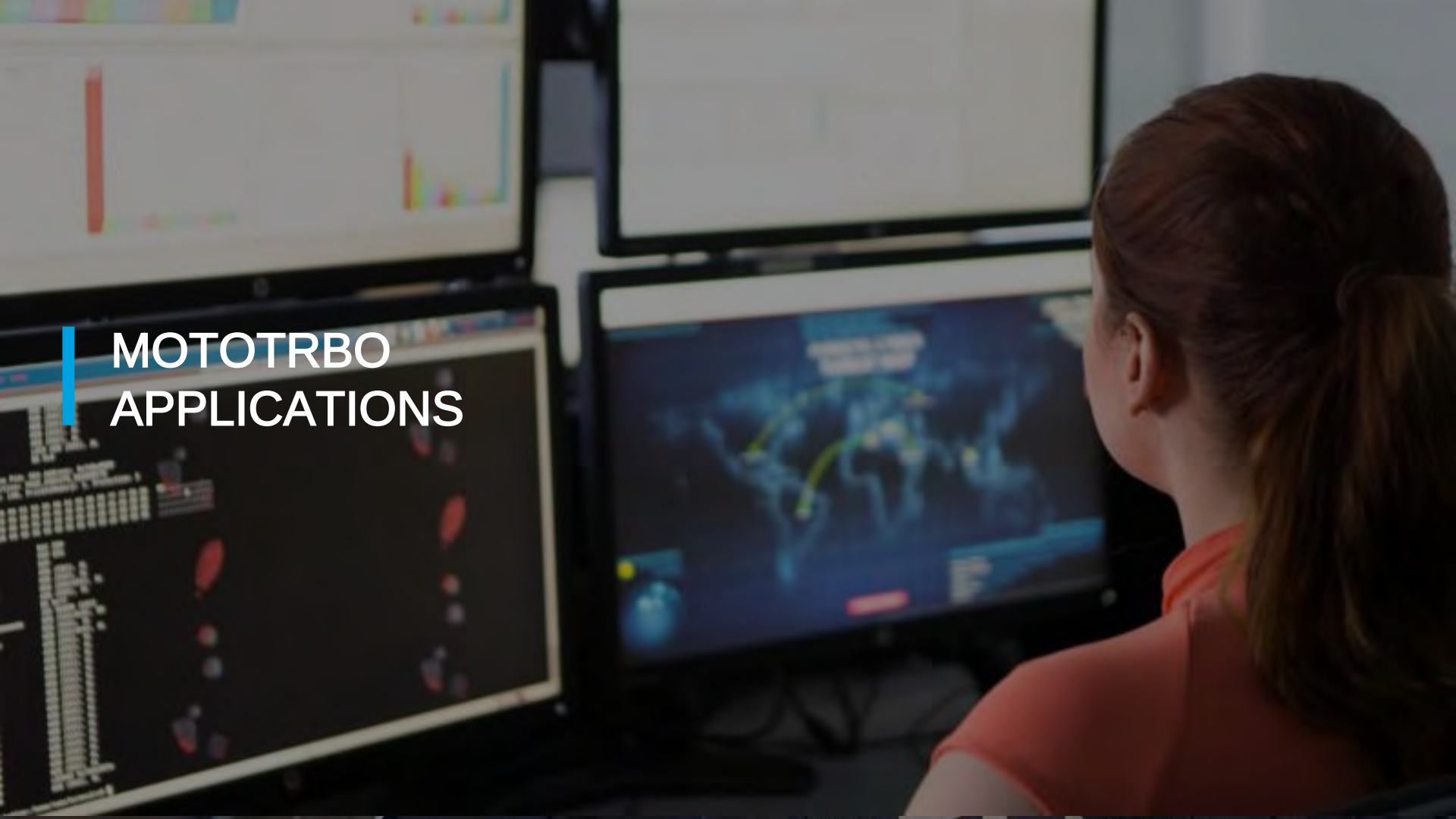
- Maximised runtime, improved lifetime
- IMPRES radio, battery and charger communicate to optimise performance
- Can increase lifetime of IMPRES batteries by up to 43%
 - Smart batteries collect historical information on cell status, charge time and capacity
 - Smart chargers read battery data and automatically schedule reconditioning cycles as necessary
- Desktop application interfaces to charger
 - Dashboard view of status of batteries
 - Early prediction of failing batteries



IMPRES OVERHEAR BATTERY MANAGEMENT



- Collects battery data automatically – even while radios are in use
- Generates long-term battery performance history records
- Allows early prediction of battery end-of-life



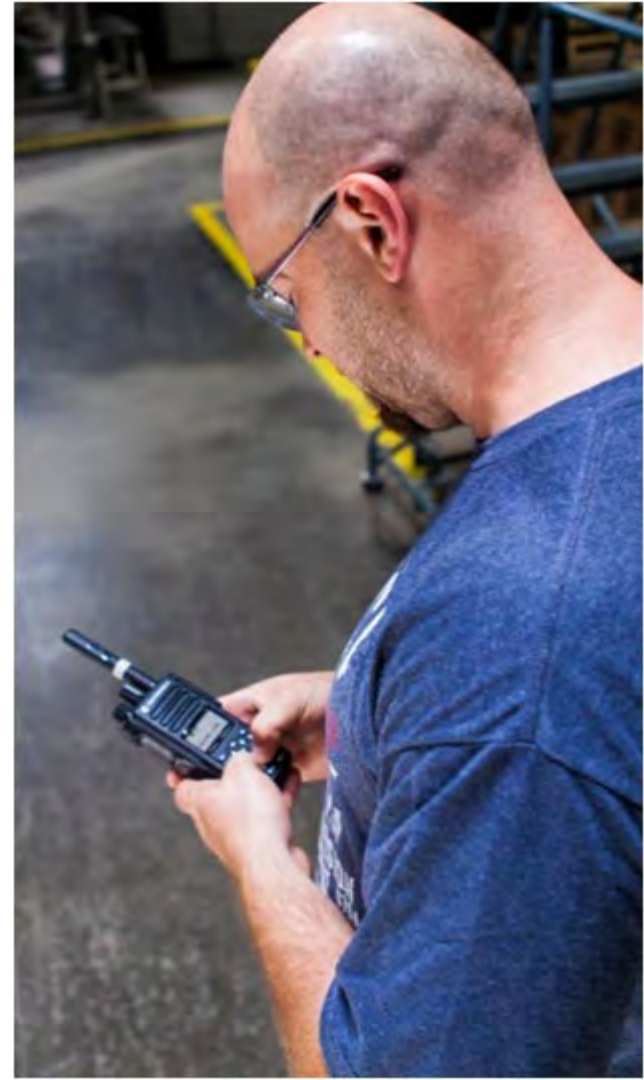
MOTOTRBO APPLICATIONS

MOTOTRBO APPLICATIONS

Applications from premium application development partners

Taking you beyond simple voice communications, the MOTOTRBO Application Developer Programme (ADP) increases the value of your two-way radio system by giving you access to advanced functionality from industry innovators.

Motorola Solutions has also partnered with premium application developers to create the Sold and Supported (S&S) programme: a range of applications that are uniquely integrated to your MOTOTRBO radio system.



MOTOROLA SOLUTIONS SOLD AND SUPPORTED

- Arrange of applications from premium application development partners that add unique value to your MOTOTRBO radio system
- Offered for sale through Motorola Solutions
- Supported through the standard Motorola Solutions service process
- Uniquely integrated with MOTOTRBO
 - Apps have exclusive access to wireline voice interface
 - Developers have early access to software releases



| MOTOTRBO APPLICATIONS

COMMAND AND CONTROL



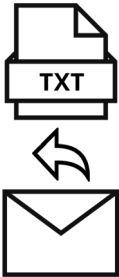
These applications work behind the scenes of your MOTOTRBO network to enhance the efficiency and responsiveness of your system.

PERSONNEL SAFETY



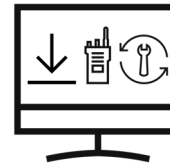
Increase the safety and accountability of your staff by deploying these applications. Features such as Man Down and Lone Worker can be linked to indoor and outdoor location services for maximum effectiveness.

EMAIL AND TEXT



Enhance productivity by connecting your radio network with your text and email system. Allow your staff to use advanced work order ticketing solutions, and streamline the flow of information between office and shop floor.

SYSTEM MONITORING

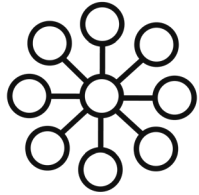


To get the best from your MOTOTRBO system, you need to know how it's performing. These applications give you a dashboard of metrics and parameters, with detailed logs helping you plan future growth.



I MOTOTRBO APPLICATIONS

INTEROPERABILITY



Connect your MOTOTRBO radio system to other communication systems. From analogue two-way radio systems to SIP telephone networks, you can increase efficiency and enhance collaboration.

VOICE DISPATCH



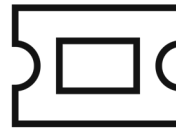
Giving you centralised control of your workforce, these applications allow your dispatcher to coordinate your staff effectively. They also enhance business connectivity by allowing telephony interconnections and patching.

LOCATION



Track your vehicles and your staff for improved safety, security and accountability. These applications allow you to make the most of MOTOTRBO's GNSS capabilities, and some even offer indoor location tracking capabilities.

WORK TICKET MANAGEMENT



These applications enhance efficiency and accountability in the workplace using text-based issue management software. They can be integrated with your existing work-order management solution or operated independently.

APPLICATION EXAMPLE: SMART PTT PLUS

Software-based Dispatch Console

- Compatible with all MOTOTRBO system types
- Direct wireline IP connection to system
 - No control stations required
 - Gracefully scalable
 - Access to all call types
- Reliable, redundant architecture
- Easily-customised user interface
- Optional functionality
 - GPS / Indoor Location-Tracking
 - Voice Recording
 - Telephone Interconnect
 - 4-Wire analogue Interconnect



APPLICATION EXAMPLE: TRBONET PLUS

Software-based Dispatch Console

- Compatible with all MOTOTRBO system types
- Direct wireline IP connection to system
 - No control stations required
 - Gracefully scalable
 - Access to all call types
- Reliable, redundant architecture
- Easily-customised user interface
- Optional functionality
 - GPS / Indoor Location-Tracking
 - Voice Recording
 - Telephone Interconnect



A man in a grey and blue striped polo shirt and clear safety glasses is shown in profile, holding a black Motorola radio to his mouth. He is in a factory setting with blurred machinery and lights in the background.

**MOTOTRBO
SERVICES**

MOTOTRBO SERVICE OFFERING

DM1000, DM2000, DP1400, SL1600, SL2600

These MOTOTRBO models include a two-year warranty as standard that provides software updates, technical support and hardware repair.

To maintain your MOTOTRBO radio so that it continues to operate at optimal levels, optional service packages are also available to provide extended and enhanced levels of protection including cover for accidental damage and wear and tear.



AT-A-GLANCE

COVERAGE	STANDARD WARRANTY	ENHANCED WARRANTY	ENHANCED WARRANTY WITH HARDWARE REPAIR	ENHANCED WARRANTY WITH HARDWARE REPAIR AND ACCIDENTAL DAMAGE
2-year manufacturers defect repair	✓	✓	✓	✓
20-day hardware repair (defect only)	✓	✓	✓	✓
2-years of software upgrades	✓	✓	✓	✓
2-years telephone support (8/5)	✓	✓	✓	✓
5-years of software upgrades	—	✓	✓	✓
5-years telephone support (8/5)	—	✓	✓	✓
5-year hardware repair	—	—	✓	✓
3-day hardware repair turnaround (inc normal wear and tear)	—	—	✓	✓
Next-day hardware repair turnaround (inc normal wear and tear and accidental damage)	—	—	—	✓



MOTOTRBO SERVICE OFFERING

DM4000, DP2000e, DP3000e, DP4000e, SL4010e, DP4000 Ex

MOTOTRBO includes five-years of software upgrades and telephone support as standard, along with 2 years of manufacturer's defect repair.

To maintain your MOTOTRBO radio so that it continues to operate at optimal levels, optional service packages are also available to provide extended and enhanced levels of protection including cover for accidental damage and wear and tear.



COVERAGE	ENHANCED WARRANTY	ENHANCED WARRANTY WITH REPAIR	ENHANCED WARRANTY WITH REPAIR AND ACCIDENTAL DAMAGE
2-year manufacturers defect repair	✓	✓	✓
20-day hardware repair (defect only)	✓	✓	✓
5-years of software upgrades	✓	✓	✓
5-years telephone support (8/5)	✓	✓	✓
5-year hardware repair	—	✓	✓
3-day hardware repair turnaround (inc normal wear and tear)	—	✓	✓
Next-day hardware repair turnaround (inc normal wear and tear and accidental damage)	—	—	✓



MOTOTRBO SERVICE OFFERING

INFRASTRUCTURE

MOTOTRBO infrastructure hardware includes an Enhanced Warranty as standard that provides 5 years of software updates and technical support and 2 years of hardware repair (extendable to 5 years).

To maintain your MOTOTRBO infrastructure so that it continues to operate at optimal levels, optional service packages are also available to provide extended and enhanced levels of protection including remote network monitoring.

SUPPORT SERVICE SCOPE

COVERAGE	ENHANCED WARRANTY	CAPACITY MAX ESSENTIAL	CAPACITY MAX ADVANCED
2-year manufacturers defect repair	✓	✓	✓
20-day hardware repair (defect only)	✓	✓	✓
5-years of software upgrades	✓	✓	✓
5-years remote technical support (10 x 5)	✓	✓	✓
5-years remote technical support for critical faults (24 x 7)	–	✓	✓
Network Update	–	–	●
Network Monitoring	–	–	●

OPTIONAL SUPPORT SERVICES

COVERAGE	ENHANCED WARRANTY	CAPACITY MAX ESSENTIAL	CAPACITY MAX ADVANCED
Extend to 5 years repair (days processing time)*	○ (20)	○ (10)	○ (5)
Hardware repair advance replacement	○	○	○
On site technical support	○	○	○
Hardware repair two-way shipping included	–	–	○

✓ Included ● Pick One or Both ○ Optional

* Repair time is defined as the time taken to process the radio in the Motorola Solutions repair facility and does not include shipping.



A close-up shot of a person's hand holding a black GoPro camera. The camera is attached to a black fabric wrist strap. The person is wearing blue jeans. The background is a blurred crowd of people, suggesting an outdoor event or festival.

PORTFOLIO FEATURES EXPLAINED

| CATEGORIES OF MOTOTRBO FEATURES



Audio

Features that improve the audio sent and received on your two-way radio system



Connectivity

Make your radio more connected with texting, while also adding Bluetooth and WIFI



Location

Locate your radio assets whether they are indoors or out in the field



Performance

Choose features designed to give you greater control over the functionality of your radio



Safety

Keep your team safe with alarm and lone worker features connected to our tough and resilient network



Security

Add instantaneous, private and secure communications to your system



I AUDIO FEATURES

- IMPRES Audio
- Automatic Gain Control
- Intelligent Audio
- Trill Enhancement
- SINC+
- Industrial Noise Cancellation





I MOTOTRBO AUDIO FEATURES

IMPRES™ Audio

Motorola Solutions' patented audio technology that optimises the performance of your radio by suppressing background noise and improving voice intelligibility, even in noisy situations.

Automatic Gain Control

Automatically compensates for changes in voice level, whether you are speaking softly or loudly, turning your head, or moving the microphone further away from your mouth.





I MOTOTRBO AUDIO FEATURES

Intelligent Audio

The radio can automatically compensate for loud environments by detecting the background noise level through the microphone and adjusting the speaker volume. Users no longer need to change the radio audio level as they move between different environments.

Trill Enhancement

Alveolar trill is a feature in many languages and can make audio difficult to understand if it is not present. A radio with Trill Enhancement will monitor the audio and, if such a sound is detected, the radio will alter the compression slightly to allow the trill sound to be transmitted without distortion.





■ MOTOTRBO AUDIO FEATURES

SINC+

Single-input Industrial Noise Cancellation improves microphone performance in noisy environments. SINC+ offers enhanced noise suppression functionality on radios with a single microphone that would only be available with a dual microphone accessory.

Industrial Noise Cancellation

INC uses microphones designed to operate at audio levels that would saturate standard microphones; two microphones are used to follow your voice and eliminate ambient noise and digital signal processing is used to extract noise in the speech band, leaving just the user's speech in the transmission.



I CONNECTIVITY FEATURES

- Bluetooth 4.0 Audio & Data
- Digital telephone Patch
- Dual Capacity Direct Mode
- Transmit Interrupt
- Pre-programmed Texting
- Freeform Texting (up to 280 characters)
- Integrated Wi-Fi
- Over-The-Air Programming





I MOTOTRBO CONNECTIVITY FEATURES

Bluetooth 4.0 Audio & Data

Bluetooth connectivity allows radios to connect to wireless accessories, freeing users from multiple wires. Radios can be left on a desk or in a work bag, giving users greater freedom to move around their work area while still being able to use their radio.

Digital Telephone Patch

By connecting your radio system to your telephone system via a PBX, your phone users and your radio workers can make calls between the systems and improving communications across the whole system.





■ MOTOTRBO CONNECTIVITY FEATURES

Dual Capacity Direct Mode

Commercial and Professional radio frequencies are allocated in 12.5KHz bands (channels). DCDM allows systems to operate two channels within a single 12.5KHz band by allocating only 6.25KHz of the spectrum to each channel and allowing users to licence fewer channels for use.

Transmit Interrupt

Authorised radios can interrupt the messages from others with their own message, or emergency messages such as man-down or emergency alerts can be given priority on the network.





I MOTOTRBO CONNECTIVITY FEATURES

Pre-programmed Texting

Simple messages can be programmed into your fleet of radios such as starting/ending shift. These messages can be triggered via programmable button or menu options.

Freeform Texting and Extended Texting

Extend your text communications by writing your own text messages in the field, utilising extended texting with up to 280 characters in every message.





I MOTOTRBO CONNECTIVITY FEATURES

OverTheAir Programming

Administrators can reprogram an entire fleet remotely, delivering huge productivity savings and allowing users to continue communicating throughout the update process.

Integrated WiFi

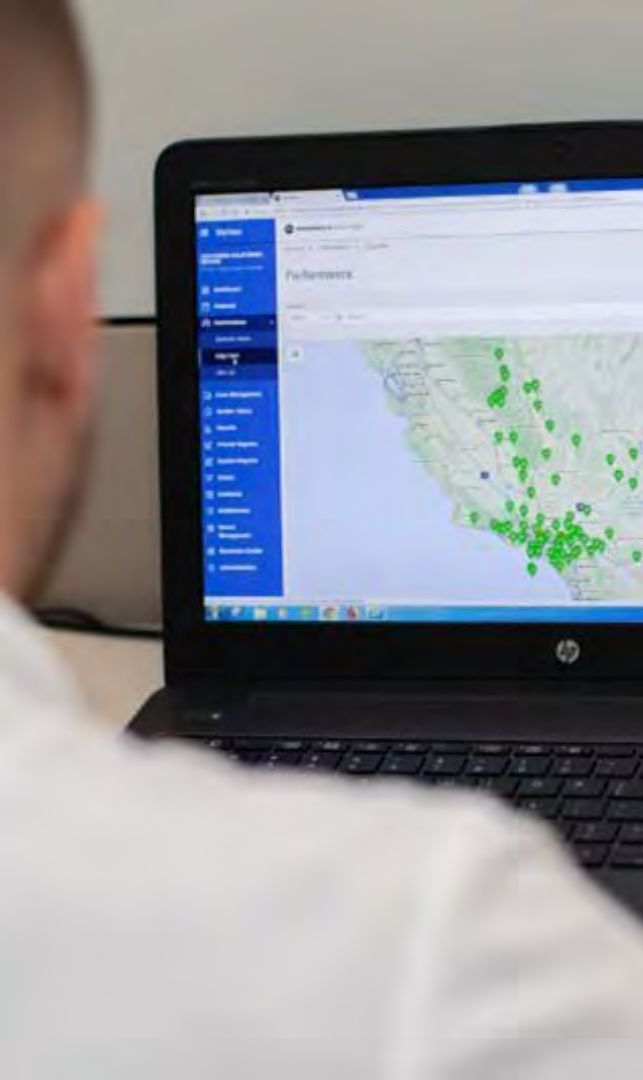
Having radios with integrated WiFi enables remote software updates to be performed much faster using the WiFi connection as a separate data path to the handset.



LOCATION FEATURES

- Indoor Location Tracking
- Integrated GPS/GLONASS





I MOTOTRBO LOCATION FEATURES

Indoor Location Tracking

LANbased ibeacons track the location of all radios using Bluetooth, allowing dispatchers to see the location of workers on a build floor plan, and have exact locations delivered to all users in the event of an emergency or man-down event.

Integrated GPS/GLONASS

Enables dispatchers and administrators to track all radios on the system, locating assets such as vehicles and operatives with high resolution. Knowing the location of assets makes tasking the closest asset much easier.



I PERFORMANCE FEATURES

- IMPRES Energy Compatible
- Programmable Buttons
- Option Boards
- Telemetry Support
- Vibrate Alert
- Voice Announcement





I MOTOTRBO PERFORMANCE FEATURES

IMPRES Energy

IMPRES radios, batteries and chargers communicate with each other to optimise battery performance. The radio identifies the battery type and automatically adjusting the radio's audio circuits and battery gauge to best utilise the connected battery.

Programmable Buttons

The programmable buttons featured on some radios can be set up to perform any actions the user desires, including pre-programmed text message sending. Buttons can be programmed with different functions depending on the length of press.





I MOTOTRBO PERFORMANCE FEATURES

Option Boards

Radios with an options board slot can accept plug-in boards programmed by Motorola Solutions Sold and Supported partners. These boards support the extra functionality offered by the supplier.

Telemetry Support

By connecting the onboard input and output ports on a radio to systems such as alarms in remote facilities, the radio system can quickly add remote control and monitoring functionality without the need to install other systems or networks.





I MOTOTRBO PERFORMANCE FEATURES

Vibrate Alert

The radio vibrates to notify you of incoming calls, making it ideal for noisy environments where you are likely to miss calls. It is also beneficial in quiet environments, because it allows you to quickly respond while not disturbing others with the sound of incoming notifications.

Voice Announcement

Have your radio announce changes to the settings with voice prompts, allowing users to change the settings without taking their eye off the task at hand to fiddle with the radio controls.



| SAFETY FEATURES

- Dedicated Orange Emergency Button
- Emergency Alarm
- Integrated Accelerometer for Mandown
- Lone Worker
- Remote Monitor





I MOTOTRBO SAFETY FEATURES

Dedicated Orange Emergency Button

Radios with this feature have an emergency button that sends an emergency alarm to the system when pressed. The system can be configured to perform a number of actions based on this alarm.

Emergency Alarm

Emergency alarms triggered from a user's radio can be set up to perform many actions on the system, such as sending text messages to supervisors, playing pre-recorded messages, and even locating the user when paired with location services.





I MOTOTRBO SAFETY FEATURES

Integrated Accelerometer for Mandown

A built-in sensor detects if a user is no longer upright and has become motionless, triggering an automatic alarm to alert colleagues to their incapacitated state.

Lone Worker

The system sends regular prompts on the radio asking the user to activate the PTT. If the user does not respond within a specified length of time, a supervisor or dispatcher can be notified.





■ MOTOTRBO SAFETY FEATURES

Remote Monitor

This feature activates the ability for supervisors and dispatchers to turn on the radio microphone remotely, allowing monitoring of a situation such as man-down or emergency alarms without the need for the user to activate their PTT.



I SECURITY FEATURES

- Basic Privacy
- Enhanced Privacy
- AES-256 Encryption





I MOTOTRBO SECURITY FEATURES

Basic Privacy

Basic privacy uses 16-bit encryption to keep your communications from being intercepted. This level of encryption is perfect for non-critical communications.

Enhanced Privacy

Enhanced privacy ups the encryption level to 40-bit, providing more protection for those who want to keep messages secret across their network.

AES256 Encryption

For mission critical communications, AES-256 encryption is the right choice. AES-256 is the current gold standard for encryption and is approved for US government top secret communications.



A woman with long brown hair, wearing a red collared shirt and a black headset, is smiling and looking to her left. She is in a warehouse or store setting with shelves of green and black boxes in the background. A blue vertical bar is on the left side of the image.

SUMMARY

I SUMMARY

- A broad portfolio of products, systems, applications and services
- All the advantages of digital radio, with a graceful migration from analogue
- Compatible with WAVE Unified Communications
- Rugged, dependable devices
- Reliable availability
- Manageable cost of ownership
- Customisable solutions





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