



MOTOROLA AT TETRA WORLD CONGRESS GUIDE

14TH - 17TH MAY 2012. BOOTH G301. SHEIKH RASHID HALL.
DUBAI INTERNATIONAL CONVENTION & EXHIBITION CENTRE.





**YOUR
MOMENTS
THAT
MATTER**



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SHEIKH RASHID HALL
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TETRA WORLD CONGRESS SHARE THE EXPERIENCE



WELCOME TO TETRA WORLD CONGRESS 2012.

This is a great opportunity to learn more about Motorola Solutions and our offerings as well as gain insight into our Next Generation vision for Public Safety and Enterprise. The vision of how we plan to strengthen and extend from our mission critical core with a powerful combination of broadband technologies, multimedia applications, and advanced devices.

Throughout Motorola's booth, you are able to experience our wide portfolio of solutions and services designed to meet the unique needs of vertical markets including police, fire, ambulance, transportation, utilities and oil and gas. This year, we are showing how these solutions and services can benefit you:

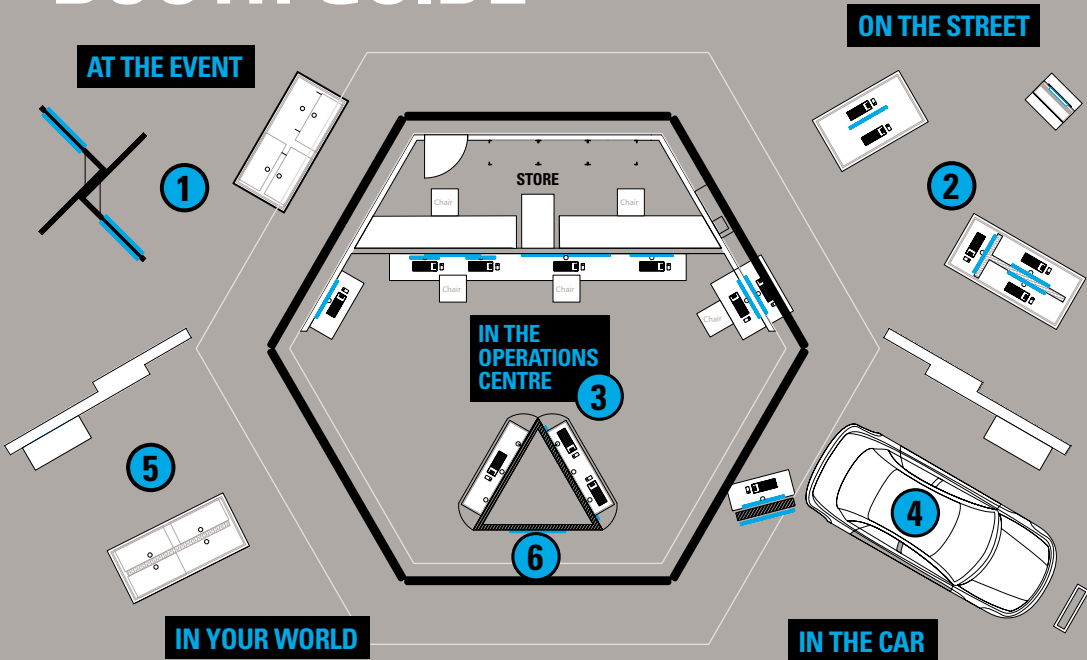
- **IN THE OPERATIONS CENTRE**
Next generation command and control
- **IN THE CAR**
Future of critical mobile communications
- **AT THE EVENT**
Empowering users on foot
- **ON THE STREET**
Inspired mobile data
- **IN YOUR WORLD**
Customised vertical solutions

As the leading provider of TETRA solutions, Mission Critical Communication technologies and services, our subject matter experts are available to discuss the latest trends and developments in TETRA. We are also participating in a number of the sessions in the supporting conference programme. Indeed, the conference programme provides the ideal opportunity to hear the latest news, not only from Motorola, but also from a variety of TETRA users.

Want to see more or share the
experience with a colleague?

Then go to www.motorola.com/twc for
news, chat and videos direct from TWC.

MOTOROLA BOOTH GUIDE



1 AT THE EVENT

- MTP3000
- ACCESSORIES

2 ON THE STREET

- LEX 700
- TEDS, MSPD
- MC65, MC75A, ES400, ET1
- INTEROPERABILITY
- LTE
- DATA APPS
- DEVICE MANAGEMENT SERVICES

3 IN THE OPERATIONS CENTRE

- FORTEK
- MCC7500C
- M-VISION
- VIDEO
- INTEGRATION SERVICES
- RELEASE 8.0
- MTS1
- iTM
- TRACES

4 IN THE CAR

- TEDS/LTE
- MTM5400
- IN CAR VIDEO
- ANPR
- MOBILE CAD
- MOBILE DATA APPLICATIONS
- PLANNING & INTEGRATION SERVICES

5 IN YOUR WORLD

- ATEX
- DIPS/C/M
- ACCESSORIES
- MTP3000
- LIFECYCLE SERVICES

6 RECEPTION

- GENERAL INFORMATION AND PRESENTATION POINT

NEW FOR 2012

MTP3000

The MTP3000 Series radios are packed with the features that have become essential for safe and effective operations, as well as significant improvements in areas such as audio and ruggedness. The user interface is optimised for those making the transition from analogue radios and includes two controls for group and volume.



ENHANCED EFFICIENCY AND PRODUCTIVITY

Dimetra IP Micro/LiTE extends benefits and optimises performance for industrial and commercial customers. Ideal for companies looking for lower cost of ownership, an easy migration path from existing analogue systems to digital trunking solutions and more accurate management of resources.

TRACES FOR NETWORK OPERATORS

Significantly reducing your reliance on drive-testing, TRACES (our TETRA RF Automated Coverage and Evaluation Solution) now enables network operators to track network performance and proactively resolve coverage issues. Quick to install, easy to use and with significant cost savings compared to traditional monitoring techniques, TRACES helps you deliver the reliability your customers need, when and where they need it.

RELEASE 8

Do a lot more for a lot less with Release 8. This state of the art software for TETRA and TEDS maximises network performance while minimising cost. It provides the high capacity and security users need for effective voice and data communications in a totally future-proof design.

Release 8 costs less to acquire and run with a 70% reduction in power consumption. A significant increase in network capacity and security makes it ideal for today's data intensive, data sensitive world. But Release 8 is also ready for the future and will fully support broadband and LTE networks.



EVOLVING MISSION CRITICAL COMMUNICATIONS, WITH MISSION CRITICAL BROADBAND

With our Dimetra System Release 8 platform, customers gain the necessary starting point for any advanced multimedia public safety communications system. While ensuring that intuitive, mission critical communications continue to provide a lifeline to first responders, this advanced and globally supported platform is ready to marry TETRA voice and wideband TEDS data services to new broadband applications.

As you enhance your mission critical communications systems with broadband, the next generation of public safety solutions you deploy will combine mission critical

voice, data, and video. Working seamlessly together, these solutions will give responders the advanced communications tools they need to be safer, better informed and collaborative in the field while communication centres can better anticipate, forecast and predict.

When Public Safety LTE extends from the Dimetra System core, it will provide always available data connections that intelligently prioritise access to critical resources, protect against threats to sensitive information, and ensure that agencies have the control and visibility they demand over their users and communications needs.

AT THE EVENT



INTERNATIONAL
TETRA
AWARDS
HIGHLY COMMENDED
Best TETRA Enterprise Product

OYU TOLGOI LLC
**BEST USE OF TETRA IN
ENTERPRISE INDUSTRY**

EMPOWERING USERS ON FOOT

17:22 The railway station is crowded with commuters. A regional express train pulls away from the platform. Rail patrol spots a man trapped in a door! They radio the train engineer to come to an immediate stop (**MTP3250, RSM**). He hears the message clearly, despite the noise, concrete and steel. The nearest conductor is alerted (**MTP3250**). Train door locks are released and the passenger pulled to safety without harm. He boards the train and arrives home on schedule. Rail patrol returns to their duties. Ready for another day. Ready to respond.

- Coverage is the single most important factor in ensuring effective communications. The MTP3000 series offers a 2dB better sensitivity (giving a 14% increase in range*).
- In a noisy environment, good audio is critical. With 2W audio and intelligent microphone, the MTP3000 offers outstanding audio volume and clarity.

*When compared to an ETSI spec radio using the HATA urban model

ON THE STREET

INTERNATIONAL
TETRA
AWARDS
HIGHLY COMMENDED
BEST TETRA ENTERPRISE ENERGY

AIRWAVE, UK
**BEST USE OF TETRA IN
PUBLIC SAFETY**



INSPIRED MOBILE DATA

3:13 A traffic accident is reported. The resilient TETRA network ensures communications remain clear for uniformed and mobile patrols arriving to secure the scene (**MTP3250, TEDS**). Ambulance services are alerted and paramedics are sent to assist with injuries (**MTP3250, ES400, MC65**). One of the drivers may be sought in connection with another crime. Officers check his fingerprints against the criminal database (**MC75A, MOBILE DATA**) and take the driver into custody. Paramedics arrive and begin triage, using mobile computers (**ET1, MOBILE DATA**) to build patient records at the point of first contact. A neurosurgeon is contacted via a video call (**LTE**) and assists to stabilise a critical head injury. As the last ambulance departs for the local hospital, paramedics continually update the emergency room on the condition of the patient (**MC65, TEDS**). The day ends. Radios and mobile computers are charged and updated. Ready for another day. Ready to respond.

- Motorola has a range of solutions to enable you to get the most out of your existing TETRA radios such as RMS for task management
- Extend these capabilities with Motorola's portfolio of enterprise-grade mobile computers which help enable applications such as stop & search and field reporting.
- Extend them further with higher bandwidth solutions like TEDS and LTE. We will be showcasing MTM5400 (TEDS), VML700 and LEX700 (LTE).

(Key solutions highlighted in bold. See page 4 for Legend.)

IN THE OPERATIONS CENTRE

INTERNATIONAL
TETRA
AWARDS
HIGHLY COMMENDED
BEST TETRA ENTERPRISE PRODUCT

CHINA LIGHT & POWER (CLP)
HONG KONG
**BEST USE OF TETRA IN
PRIVATE INDUSTRY**



NEXT GENERATION COMMAND & CONTROL

6:15 The morning shift begins in the refinery's new operations centre (**Lifecycle services**). Engineers run routine diagnostics of the TETRA communications system (**TRACES**). A rising valve pressure alarm sounds! Maintenance crews are alerted and dispatched to the scene (MCC7500C) while a fire brigade is put on stand-by (**Call out**). Dispatchers remain in constant contact with responders, monitoring the developing situation and gaining information vital to execute a coordinated response (**CAD**). Video feeds from surveillance cameras at the well head are processed, prompting an automatic shut down. The valve is inspected and an 'all-clear' report is dispatched back to command and control. Ready for another day. Ready to respond.

MOTOROLA IS THE RIGHT STRATEGIC PARTNER TO PROVIDE SOLUTIONS IN THE OPERATIONS CENTRE. WE UNDERSTAND COMMAND AND CONTROL FOR PUBLIC SAFETY.

• Motorola provides scalable Command and Control solutions from Consoles through to comprehensive call centre, CAD and multimedia management solutions

Services: We offer a complete portfolio of services including TRACES our real time network monitoring application that enables you to evaluate coverage and take corrective action.

Infrastructure: Understand how our latest infrastructure solutions will help increase efficiency, reduce costs and support TEDS and LTE.

IN THE CAR

INTERNATIONAL
TETRA
AWARDS
HIGHLY COMMENDED
BEST TETRA ENTERPRISE PRODUCT

HONG KONG POLICE
**BEST TETRA
INNOVATION**



EMPOWERING USERS IN THE VEHICLE

21:43 A suspect flees the scene of a crime. Mobile patrols are dispatched (**MTM5400**) and roadblocks established. Using multiple technologies seamlessly integrated into the patrol car, officers stay safe while in high-stress pursuit (**Police Car**). Integrated controls are easy to reach, and key functions are tied to single-button pushes or simple voice commands. A mobile workstation (**MW810**) runs applications like Automatic Number Plate Recognition, mobile CAD and real-time video streaming over TEDS or LTE (**TEDS, LTE**). Officers receive live video streams from surveillance cameras to enhance their situational awareness (**VML700, RTVI**). The suspect's vehicle is spotted on a side street (**ANPR**) and a short stand-off ensues. The criminal is apprehended and patrol cars resume their duty. Ready for another day. Ready to respond.

IN THE FUTURE, IN-VEHICLE MISSION CRITICAL COMMUNICATIONS WILL INTEGRATE THE LATEST TECHNOLOGY YET BE INTUITIVE AND EASY TO USE.

- TEDS (MTM5400); LTE (VML700); MW810 mobile data terminal; mobile CAD client
- Applications including Automatic Number Plate Recognition, real-time video & voice commands

(Key solutions highlighted in bold. See page 4 for Legend.)

IN YOUR WORLD

ATEX MTP850EX



INTERNATIONAL
TETRA
AWARDS
HIGHLY COMMENDED
BEST TETRA ENTERPRISE PRODUCT

MOTOROLA SOLUTIONS
**BEST TETRA PRODUCT
FOR ENTERPRISE**
HIGHLY COMMENDED

GREEN AWARD
HIGHLY COMMENDED
FOR FUEL CELL SOLUTION

CUSTOMISED VERTICAL SOLUTIONS

No matter what time it is **IN YOUR WORLD**, business and mission critical communications are the foundation, on which your operations, workers and customers must rely every day. In this area, you can experience Motorola's broad range of vertical solutions from your own perspective. Whether your business is public safety, manufacturing, transportation, utilities or oil and gas, you can see how the voice and data solutions meet your unique communications needs, today and tomorrow. Through hands-on experiences and interactive screens, you can explore how Motorola's advancements in radio and mobile computing technologies can make a real difference, from improved worker safety to quicker incident response times to more efficient operations and higher customer satisfaction ratings.

UNDERSTAND HOW THE EXPERIENCES ON THE STAND RELATE TO YOU. SEE HOW OUR SOLUTIONS CAN BE CUSTOMISED TO MEET YOUR NEEDS INCLUDING:

- MTM5400 dual control head option for vehicles including fire engines, ambulances & trains
- TCR1000 plus accessories for Covert operations
- ATEX solution for safe operation in explosive environments



MOTOROLA FULL SPEAKER LIST

TUESDAY 15TH MAY – CONGRESS DAY ONE

PLENARY SESSION

09.00 Establishing Effective Mission Critical Communications To Support UN Field Operations

Rolf Sjöberg, Deputy Director, ICTD/Department of Field Support, United Nations

10.00 The Nødnett Mission Critical Network On High Alert – A Report On The Oslo and Utøya Tragedy

Tor-Helge Lyngstøl, Director General, Directorate For Emergency Communication (DNK)

11.50 Keeping Your Investment In TETRA Safe

Tom Quirke, Vice President and General Manager, Global TETRA Organization, Motorola Solutions

STREAM A: Network Development & Business Models

16.40 Determining The Business Model Implications Of Integrating Commercial Customers Into A Public Safety Network

Bo Wassberg, Managing Director, Dansk Beredskabskommunikation

STREAM B: Digital Migration & TETRA Evolution

17.20 Evaluating The Evolution Of The Shanghai Metro TETRA Network And Examining Usage and Applications

Senior Representative from Shanghai Metro

WEDNESDAY 16TH MAY – CONGRESS DAY TWO

PLENARY SESSION

09.20 Panel Discussion: TETRA – Short Term and Long Term Opportunities and Threats

Facilitator:

Alex Green, Senior Research Director – Mobile Radio, IMS Research

Panellists:

Phil Godfrey, Chairman, TETRA + Critical Communications Association

Brian Murgatroyd, Chairman - TC TETRA, ETSI

Euros Evans, CTO, Airwave

Iain Ivory, Head of Global TETRA Terminals Portfolio, Motorola Solutions

11.40 Panel Discussion: Achieving International Spectrum Harmonisation To Drive Critical Broadband Communications

Facilitator:

Jeppe Jepsen, Board Member, TETRA + Critical Communications Association

Panellists:

Hans Borgonjen, Senior Coordinator International Standardisation, vts Police Netherlands

Jolly Wong, Chief Telecom Engineer – Information Systems Wing, Hong Kong Police

TETRA FOR SMART GRIDS

12.15 Transforming Existing Medium Voltage Networks Into Smart Grids – Determining How TETRA Plays A Vital Role For Efficiency In The Energy Distribution Sector, Today And In The Future

Matthias Wittig, Head of Project Management & Strategy TETRA Networks, Vattenfall Distribution

12.35 Panel Session: Evaluating The Business Model And Technical Benefits Of Using TETRA For Smart Grid And Smart City Communications

Panel:

Matthias Wittig, Head of Project Management & Strategy TETRA Networks, Vattenfall Distribution

Mirko Masi, Head of Mobile Communications, Abertis Telecom

Tapio Savunen, Director – Business Development, Cassidian

STREAM A - CRITICAL BROADBAND COMMUNICATIONS & APPLICATIONS

16.40 Successfully Implementing TETRA Without Effecting The Operational Day-To-Day Running Of A Public Transport System

Klaus Janke, Key Account Manager, INIT

17.00 Evaluating Available Bearer Choices And Devices To Deploy Beneficial Mobile Data Services

Andrew Hawkins, Mobile Data Solutions Architect, Deticia

STREAM B - TETRA DEPLOYMENT, INTEGRATION & INTEROPERABILITY

15.20 Using TETRA Above And Below Ground to Manage Effective Public Transport in Stockholm

Senior Representative from STORSTOCKHOLMS LOKALTRAFIK

17.20 Copenhagen Police Case Study:

Examining A Day In The Life Of A TETRA Radio User

Allan Christensen, Deputy Chief Superintendent - Command and Control Centre, Copenhagen Police

THURSDAY 17TH MAY – CONGRESS DAY THREE

TETRA APPLICATIONS SHOWCASE

09.00 Next Generation Services - Real Time Information Over Video Surveillance For Command And Control

Dr. Mohammed Al Radaidah, CEO, Al Rowad

10.00 Examining Reliance Refinery's Experience Of Deploying TETRA And Using Critical Data Applications

Senior Representative From Bangalore Reliance Refinery

10.20 Panel Discussion: Developing Cost-Effective And Dedicated Applications For Existing And Evolving Critical Communications Networks
Panellists:

Hannu Aronsson, Chairman, Applications Working Group Technical Forum, TETRA + Critical Communications Association

Marijo Novosel, Head of TETRA Network Management, Croatian Ministry of Interior

11.20 The UK Summer Riots – A Report On Phases Of The Incident, Highlighting The User Perspective And The Demands On The Airwave Network

Martin Benke, Director UK Network Services, Airwave

Peter Goulding, Public Safety Specialist, Industry Solutions Group, Motorola Solutions

12.20 Panel Discussion: Evolving Control Room Communications - Optimising The Interaction Between The Field And Control Rooms

Facilitator: **Peter Prater**, Key Account Manager, Frequentis

Panel: **Paul Steinberg**, CTO, Motorola

Speakers subject to change. Please check www.tetraworldcongress.com for most current listings.

WANT TO FIND OUT MORE ABOUT MOTOROLA'S SOLUTIONS AT TWC? TO SEE THE ACTION AS IT UNFOLDS? THEN SHARE THE EXPERIENCE AT WWW.MOTOROLA.COM/TWC

MAIN ENTRANCE ▶

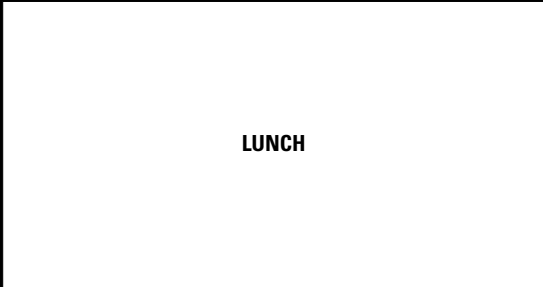
**MOTOROLA
BOOTH
G301**

**MOTOROLA
HOSPITALITY
K501**

**TETRA
WORLD
CONGRESS
BOOTH
ORIENTATION
& POSITION**

EXHIBITION ENTRANCE

EXHIBITION ENTRANCE



For more information on Motorola at TETRA World Congress, please visit us on the web at: www.motorolasolutions.com/TETRA

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