

World Congress News

The 7th TETRA World Congress



Tuesday, November 23, 2004

Business benefits well and truly realised

All organisations, whatever their purpose, are always under pressure to improve. That's life. If your business is Public Safety, one of the drivers is probably for better informed, faster response to incidents. If your business is Transportation, one of the business focuses may be on improved efficiency and passenger information. These are just two examples. Increasingly, when communications have been identified to play a significant role in business change, TETRA will be at the heart of the solution.

Measuring TETRA success

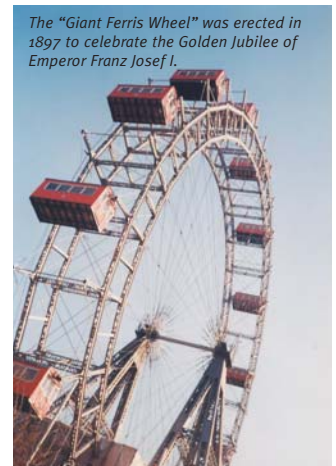
The recent survey by the TETRA MoU Association this summer

Transportation who represent over 60% of the market.

What about the impact of this in terms of business benefits? If you look at the Public Safety map across Europe and the Nordic region, five countries have operational national TETRA networks and two others, Sweden and Austria, announced decisions in 2004 to implement national TETRA solutions.

What better evidence of users realising TETRA's business benefits – common platforms that provide secure, efficient inter-agency and cross-border communications that can help all types of emergency services perform better. For Transportation

using TETRA. And there is no slow down in investment – at least two manufacturers are demonstrating new TETRA terminals here. So, it appears that the scene is set for a successful World Congress 2004 and a strong start to 2005 for the TETRA industry as a whole.



The "Giant Ferris Wheel" was erected in 1897 to celebrate the Golden Jubilee of Emperor Franz Josef I.

Welcome to the TETRA World Congress 2004

On behalf of everyone involved in putting together the Congress, I hope that you find it informative and useful and also that you greatly enjoy your time here in Vienna. IIR has been working closely with members of the TETRA MoU Association over the past year to make this year's event the best yet. This is reflected in the conference in a number of ways. There is a lot of new programme content and an increased number of users speaking about their experiences. The exhibition area has an increased number of exhibition stands and participating companies and there are brand new features such as the product briefing rooms and Internet café.

The central theme of this year's conference is 'Realising the business benefits of TETRA'. Presentations by user organisations from across the world will reflect on the many varied and innovative ways that TETRA is currently being used, as well as applications and opportunities for the future.

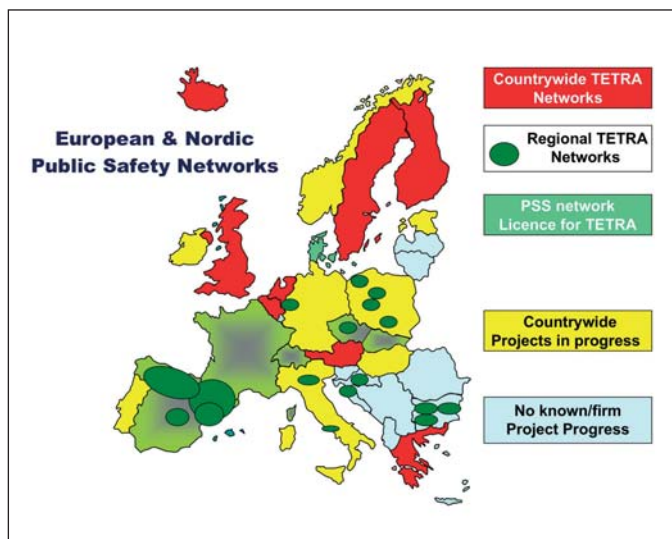
Over the next two and a half days the conference will include sessions on the benefits of TETRA; TETRA in action; Growth,

Development and Innovation; Security; Customisation and Scalability and Future Proofing TETRA. There are also focused afternoon streams and a range of in-depth Masterclasses on Thursday.

As always, there are varied social and networking opportunities connected to the Congress. This evening there will be drinks in the exhibition hall, tomorrow evening you are invited to attend the TWC Gala Reception and Awards at the Palais Ferstel, formerly the Viennese Stock Exchange and Austro-Hungarian Central Bank. On Thursday evening there is a coach trip to the historic wine-growing village of Gumpoldskirchen. Please visit the information desk to collect a ticket for the Gala Reception or to put your name down for the coach trip.

Enjoy the Congress,

Tom Davies
Conference Director,
TETRA World Congress
IIR Telecoms & Technology



showed over 500 TETRA contracts had been awarded in 65 countries. Such is the fast rate of progress, it is certainly true that there are now over 550 significant contracts for TETRA solutions and terminals let.

The top two user segments are still Public Safety and

applications, the picture is similar. In the Far East alone, 24 contracts in seven countries have been awarded for TETRA systems and terminals.

Strong industry investment

This year's Olympics have been a TETRA triumph and the 2008 Beijing Games will definitely be



In this issue: Motorola's Terminal that isn't a radio; New portable from Sepura; Test your TETRA Acronym knowledge; Nokia's Olympic progress for 2008.

World Congress News

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Growth and achievement for TETRA at TWC 2004

Since writing the introduction for last year's World Congress News, we have seen many new successes for TETRA and the Association. The growth in the number of contracts, their global nature and the spread of market sectors has continued, as has the growth in membership of the Association itself. The success of TWC 2003 set a real challenge to everyone for 2004, and I am sure that we will once again see all members of the TETRA community rising to that challenge here in Vienna. The exhibition space has twice been extended to accommodate all the companies who wish to be present!

This year also marks the tenth anniversary of the TETRA MoU Association which continues to grow and has achieved a number of significant milestones in the last decade. The members can be proud of their achievements and the important role



John Cox, TETRA MoU CEO

that they have played in establishing TETRA as the global standard which it is today. We will have a stand in the exhibition area (F3) and a representative of the Association will be on hand to tell you more about our activities and the benefits of membership.

Vienna will, I am sure, prove to be the home of yet another memorable and successful World Congress and I would like to thank all who contribute to that achievement. I wish everyone a successful and profitable experience and welcome you all to Vienna.

Sepura's future-proof handportable launched at the World Congress

TWC Platinum sponsor Sepura has launched its new SRP3000 handportable here at the TETRA World Congress in Vienna. The company describe their newest product as a radio that incorporates cutting-edge technology to deliver advanced features. They believe all future functionality requirements have been incorporated in its design in order to make it truly future-proof.

Graham Matthews, Managing Director of Sepura is excited about their new terminal. He commented, "The SRP3000 sets a new standard and raises the bar against which all TETRA terminals should be judged". According to the company, the SRP3000 has the largest high resolution colour display on any TETRA handportable enabling the display of images such as maps and mug shots. It also has im-

proved audio and a real-time clock that allows the timing of messages. In addition, the Sepura handportable contains a highly advanced, ultra-sensitive and fully-integrated GPS module which the company say is already proven, tried and tested by over 20,000 users worldwide.

The SRP3000 has enhanced encryption options such as additional tamper proofing and support for multiple algorithms; encryption algorithms can be stored in a SMART card and accessed via the SIM interface or securely within the radio. In addition, its higher processing speed and larger memory support advanced data and communication protocols. The proof of the pudding is in the eating, so go along and have a taster at the company's exhibition stand, A6, in the exhibition area.



30 years
1974-2004

teltronic
beyond the TETRA technology

NEBULA

Is a real second generation infrastructure.
System based 100% on Ethernet/IP Technology.
Can use Ethernet corporate networks as Backbone.
Distributed switching, distributed intelligence.
Does not need any GPS synchronization for full TETRA operation.

A new world of flexibility and scalability
see us at TWC, stand B6

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Multi-service TETRA network from OTE for Italy's Emilia Romagna region

The regional government of Emilia Romagna in the North of Italy has chosen a TETRA solution for their new regional communications network. The solution will be supplied by a consortium led by OTE and includes Telecom Italia, Sirti, Consorzio Cooperative Costruzioni and STRHOLD. The total value of the contract will be approximately 18 million Euros. Emilia Romagna is one of the most significant of Italy's economic regions with a population of more than 4 million and some 400,000 companies based there. Its geography is also a challenge for communications as over half of the region's territory is hilly or mountainous.

The project HQ is located in the regional capital, Bologna. The system rollout is divided in two phases. The first, due to start on the spring of 2005 will provide mobile radio coverage. The second will complete the coverage for portable terminals and is should be finished by

the end of 2005. According to OTE, their TETRA solution was chosen after a thorough selection process; the system had to be capable of facing the critical challenges of coverage in a difficult terrain to provide mission-critical radio communications for emergency medical services, civil protection and municipal police forces.

Interoperability in action at TWC

Sepura's digital portables operating on a specially installed Frequentis infrastructure here in the Austria Centre will contribute to the smooth running of the TETRA World Congress. IIR personnel using the Sepura SRP2000 handportables will also have access to the larger Frequentis network covering the whole city of Vienna, the BlueCall Vienna TETRA Network. The radios will enable IIR personnel to manage conference logistics and commu-

One major feature of the system will be the use of Virtual Private Networks (VPN's). These will give the appropriate service levels to individual user organisations whilst they all benefit from sharing costs and operational responsibilities of a single physical network. Data communications as well as voice will be provided by the system.

nications on and off-site 24 hours a day at the Austria Center, enabling them to make point-to-point and telephone calls as well as text messaging.

Tim Cook, Business Development Director for IIR said "The Sepura handportables give us easy and instantaneous communication between staff members which is crucial for the smooth running of a large scale event like the TETRA World Congress."

More than a sporting chance of success thanks to Motorola

Motorola will provide China's first Compact TETRA system, following its award of the contract to provide a TETRA digital radio system to the Nanjing Olympics Centre which will be a major venue for the 10th Chinese National Games in 2005. Located in Nanjing's New-City District, the Olympics Centre will house a main facility with 80,000 seats, gymnasium, swimming pool, and tennis courts. The successful organisation of the National Games in the centre will demonstrate the ability of sports centres in China to host major sporting events before the 2008 Olympics Games in Beijing.

The Motorola Compact TETRA system will provide communications coverage, essential for security and seamless coordination of large-scale sporting events. The company say their system will enable reliable voice and data communications for a large number of subscribers during sporting events.

SIEMENS

Global network of innovation

presenting exclusively
data enhancement & video link



Secure Communication for Professionals

We enable TETRA Mobile Radio users to receive high speed broadband data and video streams in real time by integration of high speed digital data and video streams into the ETSI standardized TETRA platform.

Live presentation at our booth A5!

Hot favourite wins for Chile

Santiago Metro chooses a TETRA solution from Teltronic

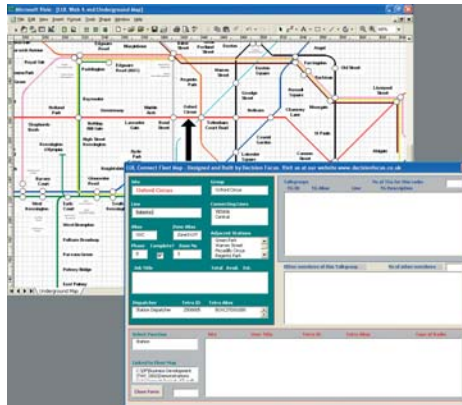
The Spanish TETRA equipment manufacturer Teltronic has been chosen by Siemens Chile to supply a NEBULA TETRA network for two of the metro lines in the country's capital, Santiago. The comprehensive solution will provide communications for approximately 32 kms of the city's metro lines 4 and 4A. According to the supplier, the virtual net-

works established within their solution will mean Santiago Metro's different work teams have independent operation on the same network, whether they are in the underground or surface sections of the two metro lines concerned. Make tracks to Teltronic's stand B6 in the exhibition area to see NEBULA operating for yourself..

British Transport Police take a positive Decision

Decision Focus has announced that the British Transport Police have become the 36th UK Police Force to purchase their integrated suite of TETRA radio provisioning and management applications – Fleet Mapper and Radio Manager.

The complex process of building a fleet map and managing the fleet of terminals in large user organisations can be daunting. Using a powerful software tool makes everyone's lives easier and also makes it easier to keep track of the significant financial asset represented by hundreds and even thousands of terminals. Find out more about their products on stand D4 in the exhibition area at TWC.



APD enables live checks and real-time information for Police on suspect vehicles

Officers from the UK's Lancashire police force can now perform real-time Automatic Number Plate Recognition (ANPR) checks on stolen and uninsured vehicles thanks to software supplied by APD, the mobile information specialist. They believe this is the first time in the UK that officers can check vehicle details in real-time using the Police

National Computer (PNC) and the UK's secure TETRA-based Airwave Service.

This new approach enables Lancashire Constabulary's mobile patrols to obtain up-to-date information on the move. Previously, they relied on a copy of the database downloaded once a day to their Mobile Data Terminal (MDT). If officers needed to check information, they would need to call a PNC operator via their TETRA radio or mobile phone.

Automatic number plate recognition

Checks are automated thanks to an integrated number plate recognition system, provided by Genesis. The patrol car's MDT automatically checks each vehicle that passes against a list of target vehicles which police believe may be stolen, uninsured or involved in a crime. To see more, please visit the company's stand, B11, in the main exhibition area.

eXTRAS TETRA Infrastructure

Simple Solutions, Excellent Performance



eXTRAS provides you with a single communication and information solution for all purposes.

Thus the new FREQUENTIS TETRA solution conforms to the varied requirements of professional user organisations, regardless of an organisation's size, and minimises your system expenditure.

Austrian power utilities have been using TETRA by FREQUENTIS successfully for years. The profound experience of FREQUENTIS in the field of mission critical operations as the world market leader in ATC Communications guarantees you a state-of-the-art TETRA system for the most busy environments of airports.

The broad basis of knowledge coupled with a wealth of experience in the fields of both Public Safety and TETRA also ensure maximum flexibility and independence of operation at the FREQUENTIS Viennese TETRA network.

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Nokia helps Murcia's Fire service respond

Earlier this year, the Fire and Rescue consortium for the Autonomous Community of Murcia selected a TETRA solution for its Digital Network for Emergency Mobile Radio-communications (RADIECARM). A Joint Venture company is supplying the new network, based on Nokia's TETRA system, to replace at least 8 existing networks and integrate them into a single digital network. It will be for the exclusive use of the management and personnel of the relevant brigades including ambulances, fire fighters, Civil Protection, forestry officers and local police. Interoperability while attending emergencies will allow for better co-ordination of the various groups.



provide real-time data information on the geographical position of personnel, images of the emergency or even the medical record of a casualty being transported in an ambulance. The RADIECARM system will improve voice and data communications, contributing to more effective co-ordination of emergency services. Installation of the system is expected to take about 30 months.

And, thanks to TETRA's digital performance, the network will enable immediate communications to be established to

How are your TETRA Acronyms?

Select the correct meanings of the following five acronyms and you could win a bottle of Champagne.

Mark ONE answer box only for each question with a large X. Please remember to put your name, company and email address on your entry.

1. **What does the acronym DGNA stand for?**
 - a) Dynamic Group Number Assignment
 - b) Doug Gray Never Argues
 - c) Digitally Graduated Numeric Arrangement
2. **What does the acronym ETSI stand for?**
 - a) European Train Spotters Institute
 - b) European Telecommunications Standards Institute
 - c) Early Thermal Suppression Interface
3. **What does the acronym SCK stand for?**
 - a) Selective Critical Key
 - b) Stunning Cricket Knowledge
 - c) Static Cypher Key
4. **What does the acronym TEA stand for?**
 - a) Terribly Easy Acronym
 - b) TETRA Encryption Algorithm
 - c) Tyrolean Entomologists Association
5. **What does the acronym TIP stand for?**
 - a) Telecommunication Interface Point
 - b) Tasty Individual Pie
 - c) TETRA Interoperability Profile

Your name

Company name

email

Please note: Hand your entry to any of IIR's WCST (World Congress Support Team). All entries will be put into a draw for Thursday and the winner will be the first correct entry picked. The winner will be announced at the close of the Congress on Thursday lunchtime. The prize must be collected at the World Congress on Thursday afternoon. In all matters, the Editor's decision is final.

Your complete partner in duty -Nokia TETRA



End-to-end TETRA solutions from networks to terminals including network management and services.

- Complete voice
- Complete security
- Complete data

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Frequentis provides eXTRA for local bus and trams

Delegates at this year's TETRA World Congress in Vienna who use Wiener Lokalbahnen's trams will have their journey more efficiently managed thanks to TETRA. The local transportation company was one of the first users of the city-wide PAMR TETRA radio network – known as Blue Call Vienna. The network, from local manufacturer Frequentis, is open to all private and public users. Wiener Lokalbahnen is one of the main public transport providers for Vienna and its southern suburbs. Their busy transport fleet carries about 15 million passengers per year.



TETRA in action in Vienna

On show @ TWC

Over 50 companies and related organisations will have their products and services on show in the **biggest annual TETRA exhibition** here in the Austria Center. There is a dedicated **Applications Village** in the centre of the exhibition area with demonstrations from nine companies. Full details are in the Exhibition Showguide – make sure you pick up your copy.

The exhibition area is open for all three days of the World Congress – Tuesday through to Thursday at 14:00. The conference breaks have been planned to give delegates the opportunity to view stands and the refreshment stations are in the exhibition area itself.

Drinks Reception tonight

The conference organisers, IIR, are hosting a drinks reception tonight in the exhibition area. This will be an ideal opportunity to network with speakers, sponsors and delegates and give you extra time to visit the exhibition stands and the Applications Village.

Motorola's new Terminal isn't a radio!



Motorola is taking a different approach to demonstrations this year at TWC, by inviting visitors to its airport themed demonstration suite known as The Motorola Terminal. The live-demonstration is designed to demonstrate true interoperability in mission critical environments. The Motorola Terminal will illustrate how TETRA networks can improve safety and efficiency across multiple organisations.

In the Motorola Terminal, a 'suspect' has been seen. Visitors will witness how the company's secure Dimetra IP network and specialist applications enable a variety of airport personnel to co-ordinate a suitable response to this 'sighting'. Typical interactions between command and control centres, police, fire & ambulance as well as airport staff using voice or data will be demonstrated. Visit Motorola's stand B7 to get your boarding pass.

A Critical Network will keep this from becoming a bigger crisis.

Phone lines are down. Cellular and cable networks are down. But all responders remain in contact and receive the information and commands they need. A public safety-controlled Motorola Critical Network provides "always available" information, reliably, using secure features. That means they can coordinate their efforts and designate areas to search, rescue, and maintain order.

Discover how standards-based Mission Critical solutions powered by a Critical Network help organisations serve the public, even when other systems fail. **To find out more come and visit the Motorola Mission Critical Stand B7 in the Exhibition Hall.** It's the intelligence you need in an unpredictable world.

MOTOSERVE



Product Briefings – another new TWC feature

For the first time this year, exhibitors at the TETRA World Congress will be presenting a series of short, 15 minute **Product Briefings** about their products and services. The briefings are an excellent chance for delegates and visitors to hear first hand from vendors and to ask them questions about their products. The Product Briefing Rooms are in the main exhibition area. Access is open to delegates and non-delegate exhibition visitors. Companies already confirmed to present include Aerial Facilities, Dantherm, Decision Focus, Kathrein Werke, Hyder, Nokia, OTE, Panorama, Sepura, Spescom, Teltronic and Zetron. A daily timetable outside the Product Briefing rooms will give details of the presentation times. A copy of the timetable will also be on the Congress notice board. If you are an exhibitor and have not yet arranged your Product Briefing please visit the IIR Stand now to book your slot.

Olympic Opening Ceremony – four years early?

Phase 1 of Nokia's Beijing 2008 Olympics network officially opened

In 2008, Beijing will host the world's biggest sporting event – the Olympic Games. And, in a re-run of 2004 and the Athens Olympics, TETRA will be at the heart of the communications solution. The official opening ceremony for the first phase of the Beijing Government Shared TETRA Network was held on



Beijing police officer

18 October, 2004. The network's operator, Beijing Just Top Netcom, is now gearing up for Phase II of this ambitious TETRA network project, which, according to its infrastructure supplier Nokia, is the largest of its kind in Asia.

Phase I of the programme has resulted in an initial network to cope with up to 50,000 subscribers, covering the urban area, all the central country area and

the highways in Beijing. In September, the network was already serving the police, city administration, Water Conservancy, fire, Ambulance service, Disease Control, Law Enforcement and other authorities. With the fastest PMR roll-out in China and the biggest TETRA network in Asia, the Beijing Government Shared TETRA Network is surely set to make more records as it gets into its stride for Digital Olympics 2008.

Italian Municipal Police select Sepura terminals

The Alessandrian Municipal Police Force has selected Sepura GPS equipped portables and mobile TETRA terminals for its secure communications. The city is in the Piedmont region of Northern Italy. The police TETRA communication system is planned to be operational at the beginning of 2005. Sepura's partner for the North of Italy, GEG srl, secured this important win for the company.

According to the company, their terminals were chosen because of the benefits provided by the fully-integrated and ultra-sensitive GPS module, and also because of the seamless integration and communication with the Police's existing handheld and mobile IT terminals. The terminals will give officers access to e-mail and databases allowing them to carry out operations such as vehicle registration plate checks in real-time.



(real size 134x62x25 mm, 320 gr)

PUMA T3Ex: Safety is a "MUST"

The best TETRA hand-held, PUMA T3, is growing up:

PUMAT3Ex

the new "Intrinsically Safe" version according to ATEX Standard to guarantee safety operation in potentially explosive environments.

- Fluorescent red colour
- Optimized keypad for heavy duty glove use
- Wide range of professional accessories
- Very high audio volume
- Die cast aluminum case
- Hold-up positioning

PUMA T3Ex is the unique professional hand-held with ATEX 2G ib IIC T4 certification, able to operate in the TETRA Digital Standard Mode (ETSI EN 300 392-2/396-2) or Analogue Mode (ETS 300 086), with data rate up to 28.8 Kbps.



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Tuesday's World Congress programme at a glance

Morning plenary session – main conference room

- 09:30 Welcome from IIR, *Tom Davies*
 09:35 Introduction from the Chair, *Doug Gray, Chairman, ETSI Project TETRA*

Benefits of TETRA

- 09:50 Realising The Business Benefits of TETRA
John Cox, CEO, TETRA MoU Association
 10:10 The New Nationwide TETRA Public Safety Network for Austria
Brigadier General Peter Skorsch, Austrian Ministry of the Interior
 10:35 Examining the RAKEL Public Safety Project in Sweden
Stefan Kvarnerds, Swedish Emergency Management Agency
 11:00 Coffee and opportunity to visit the exhibition
 11:45 TETRA in France: Outlining the Benefits of TETRA for the Paris Public Transport Agency (RATP), *Pierre Carayon, Radio Network Projects, RATP*

TETRA in Action

- 12:10 Madrid Bombing – The Critical Role of TETRA Communications
Javier Quiroga, Operations Director, Madrid Municipality Medical Services
 12:35 Operational Experiences from the Athens Olympics
Athens Olympic Organisation
 13:00 Lunch and opportunity to view the exhibition

Afternoon Stream A – Applications

- 14:30 Opening remarks from the Chair, *Phil Godfrey, Chairman, RCC*
 14:35 Now for Something Completely Different – TETRA's penetration of new markets
Sven Dohmann, Compact TETRA Business Manager, Motorola
 15:00 Beijing TETRA Network: Experiences of Providing Applications for Users
Ding Rui, Vice President, Beijing Just Top Network Communication
 15:25 Enhancing Officer Safety & Improving Resource Effectiveness with APL
UK Police Representative
 15:50 Afternoon refreshments and opportunity to view the exhibition
 16:30 The Helsinki Rescue Services JOSO Project
Anssi Kuusela, Chief Information officer, Helsinki Rescue Department & Arno Aaldijk, Project Manager, WM-data Novo
 16:55 TETRA Gateway & Repeater Applications for Voice and Data
Peter Hudson, Senior Products Manager, Sepura
 17:20 Telemetry and Remote Control over TETRA
Antonio Linares, Telecommunications Service Director, Ebro River Authority
 17:55 Closing remarks from the Chair – End of Day One

Afternoon Stream B – Implementations

- 14:30 Opening remarks from the Chair
Risto Toikkanen, PMR Standards and Industry Cooperation Manager, Nokia
 14:35 Using EU Financing to Build the First TETRA Network in the Balkans
Yancho Sirakov, UNDP PHARE Consultant, Council of Ministers of Republic of Bulgaria
 15:00 Chengdu Municipal Informatization Office: TETRA for Emergency Response
Li Changhong, Deputy Director, Chengdu Municipal Informatization Office
 15:25 Developing a TETRA Solution to Provide More Effective Communications for the South African Police Services, *Danny Pillay, Assistant Commissioner, SAPS*
 15:50 Afternoon refreshments and opportunity to view the exhibition
 16:30 Implementing a TETRA System for the First Subway Line in Bangkok
Dr Pichit Rukchonlatee, M&E Maintenance Chief, MRTA Bangkok
 16:55 On Board Dual TETRA-PMR Units and Customised Consoles to Manage the Migration from Analogue to Digital PMR in Metros
Joaquin Villa, Senior Project Manager, CAF
 17:20 Implementing a TETRA Digital Trunked Network for the FSK EES Electricity Company
Valery Degtyarev, Middle Volga Project Coordinator, TETARUS
 17:55 Closing remarks from the Chair – End of Day One

Afternoon Stream C – Scalable Solutions

- 14:30 Opening remarks from the Chair
Roger Dowling, Deputy Managing Director, Sepura
 14:35 'Small is Beautiful' – TETRA Solutions for Transit, *Peter Bezemer, Manager Business Development, Mobile Communications Solutions, Getronics Netherlands*
 15:00 Optimising the Exploitation of Public parking, Towing and Traffic Regulation using AVL and TETRA in the city of Zaragoza
Gonzalo Lasarte, Managing Director, Dornier
 15:25 Shared Applications in Shared Multi-Agency Networks
Pekka Blomberg, Sales Director, Nokia
 15:50 Afternoon refreshments and opportunity to view the exhibition
 16:30 Emilia Romagna: A Shared Network for Regional Emergency Services
Decio Ongaro, Director of Network Implementation, Emilia Romagna Local Government
 16:55 Mobile TETRA Systems for Distress Applications,
Jan van der Meij, Senior Consultant, Zenitel and a Royal Netherlands Air Force representative
 17:20 Developing Scalable TETRA Solutions for the Russian PMR Market
Pavel Fedorov, Chairman, Foratec
 17:55 Closing remarks from the Chair – End of Day One

sepura First in TETRA



Sepura SRP3000

The world's most advanced TETRA handportable

- Future-proofed hardware platform
- Largest high resolution true colour display
- Support of advanced data applications
- E2E encryption options
- Proven GPS technology: 20,000 in use

Supporting the applications of tomorrow

See it live on stand A6

for more information visit www.sepura.com