



Norway's Nødnett gets the go-ahead



Signing up to Nødnett, left to right: Frank Almeas, Siemens; Tor Hege Lyngstøl, Ministry of Justice and the Police/Nødnett Project; Andreas Agersborg, Ministry of Justice and the Police; Dag Roar Austmo, Siemens

The Norwegian Ministry of Justice and the Police and Siemens AS have signed an agreement on the delivery and long term operation of a new digital radio network - Nødnett - to be used by the Norwegian public safety agencies. In the first phase the network is to cover 54 municipalities including the capital Oslo.

Studying the future of public safety communications

PITO, the Police Information Technology Organisation, has appointed Multiple Access Communications (MAC Ltd) to investigate mobile communications industry trends up to and beyond 2016. The main aim of the study is to examine what impact changes in mobile communications technology will have on the nature of public safety communications over the next ten years.

The three month project incorporates extensive consultation with key suppliers within the public safety communications industry, and will also include discussions with organisations from the wider mobile communications industry involved in research and development.

Peter Wickson, Head of Engineering at PITO, said: "PITO cannot predict the future, but we are committed to listening to our customers and other stakeholders in the public safety community. We want a better understanding of how their future operational needs can be met with advances in mobile communications technology."

Teltronic launches TETRA-WiMAX project

The TelMAX project, headed by Teltronic, has been selected by the Spanish Centre for Development of Industrial Technology (CDTI) to develop a new professional mobile broadband communication system. The TelMAX consortium will develop a new mobile communication system with TETRA-WiMAX infrastructure and dual terminals.

The four year project is being developed through the Spanish CENIT programme, which promotes public and private cooperation on strategic research, development and innovation. Phil Kidner, TETRA Association CEO, said: "This shows the strength of treating technologies as complementary rather than competitive."



First Technical Forum outside Europe

The TETRA Association Technical Forum meeting #40 was hosted by HYT in Shenzhen, China at the end of January. HYT is one of many manufacturers from Asia entering the TETRA market. Asia is one of the fastest-growing TETRA markets in the world.

It was the first Technical Forum meeting outside Europe, and attracted twice the usual number of participants. It highlighted the importance of the contribution of Asian TETRA experts in the Technical Forum.



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Communications are the backbone of the emergency services

Bernhard Krumpel,
managing director
of TETRON,
Austria's TETRA
network operator

TETRA arrived in Austria just over a year ago, deployed by network operator TETRON, a joint venture between Motorola (65%) and Alcatel (35%).

The decision to choose TETRA was made after a lengthy evaluation process by the Austrian MoI, during which alternative technologies were considered, including GSM.

Bernhard Krumpel, managing director of TETRON, told TETRA News why the choice was for TETRA. "The communications system is the backbone of the emergency services. We must provide the best technology, and TETRA was chosen as the most suitable. It provides a strong public safety system, with integrated communications. It is a single system standard that meets the Schengen requirements for cross-border communications, and it is interoperable and secure."

"The blue light services in Austria – the police, fire and ambulance – can now all talk to each other over a secure system in Tyrol and Vienna, including when in the underground rail system, where TETRA was deployed in just five months ready for Austria's EU Presidency term last year."

TETRON is currently concentrating on building a nationwide network with excellent voice quality. Implementing data services is the next step for the 60,000 users expected on the network once it is fully completed.

"In today's climate, the ability to provide excellence in emergency services, especially during major events and potential catastrophes, is the most important responsibility of the government," continued Bernhard Krumpel. "Compare the escalating cost of maintaining an old and outdated analogue system with implementing a new, evolutionary and fit-for-purpose system and there is no debate.

"As an additional benefit, as we are in the age of the mobile phone, the training required on new TETRA terminals is minimal as people are familiar with the mobile device. This means that new users can be proficient very quickly."

The TETRON network is operational in Vienna and Tyrol. Currently Tetron implements the service in Lower Austria and Styria. Nationwide coverage is expected by 2009.

Demonstrating commitment to DMO

TETRA terminal manufacturers have demonstrated their commitment to Direct Mode Operation (DMO) – transmission from terminal to terminal without the use of infrastructure. Suppliers submitted a total of 14 terminal models for interoperability testing.

The two-week session was hosted in London by PITO and managed by ISCOM, the official TETRA certification body. The tests were designed to assess Direct Mode 'Core' and 'Repeater' functionality. A separate test session for DMO 'Gateway', the final DMO equipment type, is planned for Q2 2007. Certificates from the test sessions are published during April 2007.

The Chairman's Vision

Looking forward as 2007 progresses, I have to ask myself whether this coming year can possibly be as hectic as 2006. The answer is probably yes! The Association is changing to address the global membership and the global market.

Already the Technical Forum has held its first meeting outside Europe by accepting the invitation from Chinese manufacturer HYT to host the event. We have supported ETSI at an event in Mexico and the publication of this edition of TETRA News coincides with our conference in Turkey. During 2007 we are also planning to visit Argentina, China and South East Asia.

Back in Europe we are looking forward to the World Congress in June. Madrid is, of course, a beautiful city especially in the summer, so it is definitely the place to be. The exhibition will be larger and more comprehensive, and most importantly, a great deal of effort has been put in to make the conference our best ever.

We have broadened the scope to include other technologies. We have a variety of new speakers, new industry representatives and many users giving us their experiences of real projects. This Congress is not to be missed. We have a programme overview on the back page, for full details please visit www.tetraworldcongress.com

Phil Godfrey
Chairman TETRA Association



TETRA Health Update

Invitation to a seminar
arranged in association with BAPCO
– TUESDAY 24 APRIL 2007 –

The TETRA Industry Group (TIG) invites you to a free seminar at the
Business Design Centre, 52 Upper Street,
Islington, London N1 0QH

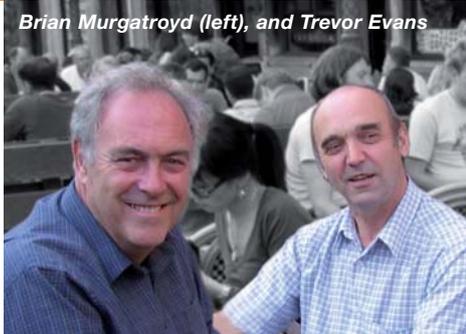
Places at the seminar are limited. If you would like to attend please visit www.tetrahealth.info/seminar_reg.htm to complete and submit a registration form.

For more information about the TETRA Industry Group, visit our website at www.tetrahealth.info

New chair for the SFPG

Brian Murgatroyd (left), and Trevor Evans

Brian Murgatroyd, Chairman of the Security and Fraud Prevention Group (SFPG), and TETRA Working Group 6 – Security has retired from PITO. The new Chairman is Trevor Evans, also from PITO.



TETRA Working Group 6 is responsible for the development of the TETRA security standard. The SFPG is an independent group of the TETRA Association dealing with security and fraud prevention issues.

Brian explains: “The TETRA standard specifies a large number of air interface security features. However, it only stipulates that you should take security measures, e.g. an authentication mechanism between the mobile equipment and the TETRA infrastructure, and that you should encrypt the information being transferred. It does not tell you how and when to implement these features, or how to store and distribute security keys in a safe way. This is less of a problem when you are dealing with only one manufacturer and one network. In TETRA however, where a number of different manufacturers supply equipment for the same TETRA system, it is necessary to make agreements in order to ensure interoperability. SFPG ensure that the security implementations in systems supplied by different equipment manufacturers are compatible, and that the many TETRA security features are optimally implemented and securely used.

“The SFPG has defined a framework for End-to-End security that is flexible enough to address the needs of all users and their security policies. Those who have specific security needs can ‘drop’ their own encryption algorithms into the framework, and standard algorithms are specified for those who are looking for an off-the-shelf solution. We are currently working on edition 5 of the Recommendation on TETRA End-to-End Security. This is probably the most important of the recommendations and has become the de facto standard for end-to-end encryption and key management.”

Even in the case of TETRA, which is currently the most secure standard for mobile communication, new developments can bring new challenges for hackers and defrauders. The composition of the SFPG, which brings together manufacturers, operators and users, provides a platform not only to keep track of current developments, but to stay one step ahead of defrauders.”

Members can find the complete list of Recommendations, and minutes of meetings, on the SFPG section in the members’ area of the www.tetramou.com. Group secretary Marjan Bolle can be contacted at SFPG@xs4all.nl for more information.

On behalf of SFPG and WG6 members we thank Brian for his invaluable contribution to the success of the work, and wish him a long, happy and fulfilling retirement.

If you wish to receive SFPG documents:

All SFPG Recommendations are available to Association members upon request from the SFPG secretary SFPG@xs4all.nl. In view of the sensitive nature of the information, they will be distributed by snail mail, after signing of a non-disclosure agreement.

Countrywide completion for Hungary’s EDR network



EDR connects

The EDR Office of the Hungarian Prime Minister’s Office, Electronic Government Centre, T-Mobile and Pro-M Zrt. have jointly announced the completion of the countrywide unified digital radio telecommunication system (EDR, Egységes Digitális Rádiótávközlő Rendszer).

“Many years of preparation work and a major government project are coming to an end by delivering the EDR system, which will play an important role in providing world-class support to the cooperation of Hungarian response forces. Following the handover, response forces, including the Police, the Border Guards, the Fire Brigade, the Disaster Recovery Services, the Ambulance Service and the Prison Service, can start using the new radio system gradually,” said Géza Meichl, leader of EDR Office, Hungarian Prime Minister’s Office, Electronic Government Centre.

Welcome!

The TETRA Association welcomes the following new members from around the world:

Arico Technologies	Austria
Riigi Infokommunikatsiooni Sihtasutus/RIKS	Estonia
Beaconsim Oy (TETRASIM)	Finland
Qatar Telecom (QTEL)	Qatar
TetraProm LLC	Russia
Norconsult Telematics	Saudi Arabia
Dominion Technologias SLU	Spain
Swissphone Telecom AG	Switzerland

TETRA Focus: TETRA – Today & Tomorrow

The Market Positioning for TETRA

Devdarsh Jain, Head of Marketing, Artevea Digital Limited

The developments in telecom, IP, computing and semiconductors are driving forward the convergence of radio communication in the 21st century. TETRA, within a decade of existence, has now established itself as the clear technology of choice for PMR Networks worldwide. This article considers TETRA today and tomorrow – the current and potential competing technologies, and their respective futures.

TETRA vs APCO 25

TETRA and APCO 25 have been two standards in radio communication which have now existed for over a decade. While they have competed against in each other in a few common market segments, they are different technologies at core.

- APCO 25 standard has evolved from joint project of U.S. users (APCO, NASTD), government and industry (TIA) organisations, during which time it has been standardized as an open standard. In comparison, TETRA has been developed as an open standard since its inception with a global approach for worldwide acceptance.
- APCO 25 is a Frequency Division Multiple Access (FDMA) based voice centric technology with wide rural coverage and focus on public safety. TETRA has been developed as a Time Division Multiple Access (TDMA) based Voice + Data standard to meet the needs of various user groups such as shared multi agency public safety systems (PSS) and smaller private networks.

- APCO25 is traditionally assumed to be suitable for large cells and low density users as it becomes technically and commercially challenging to provide capacities for large number of subscribers over a small area. Alternatively, TETRA is designed to handle higher capacities at lower cost with greater spectrum efficient solution.
- APCO 25 has no visible future roadmap, while the TETRA Association and ETSI are already actively involved in developing TETRA 2.

This has led to differentiated markets for each of the standards.

- APCO 25 has had maximum markets in the US Public Safety market with some private contracts in Latin America and Asia Pacific.
- However, TETRA has continued successfully to evolve as the technology of choice in Europe, Middle East and Asia with rapidly growing footprint in Africa and Latin America. TETRA also targets vertical segments such as Public Safety, Transportation, Utilities and Infrastructure management

Latterly, we are seeing the evolution of standards such as WIMAX and DMR

- WIMAX (Worldwide Interoperability for Microwave Access) 802.16e is a Mobile Broadband standard which has been backed by the telecom industry as the standard to drive the next wave of telecom revolution. WIMAX 802.16e (Mobile) theoretically promises to deliver data speeds up to 100

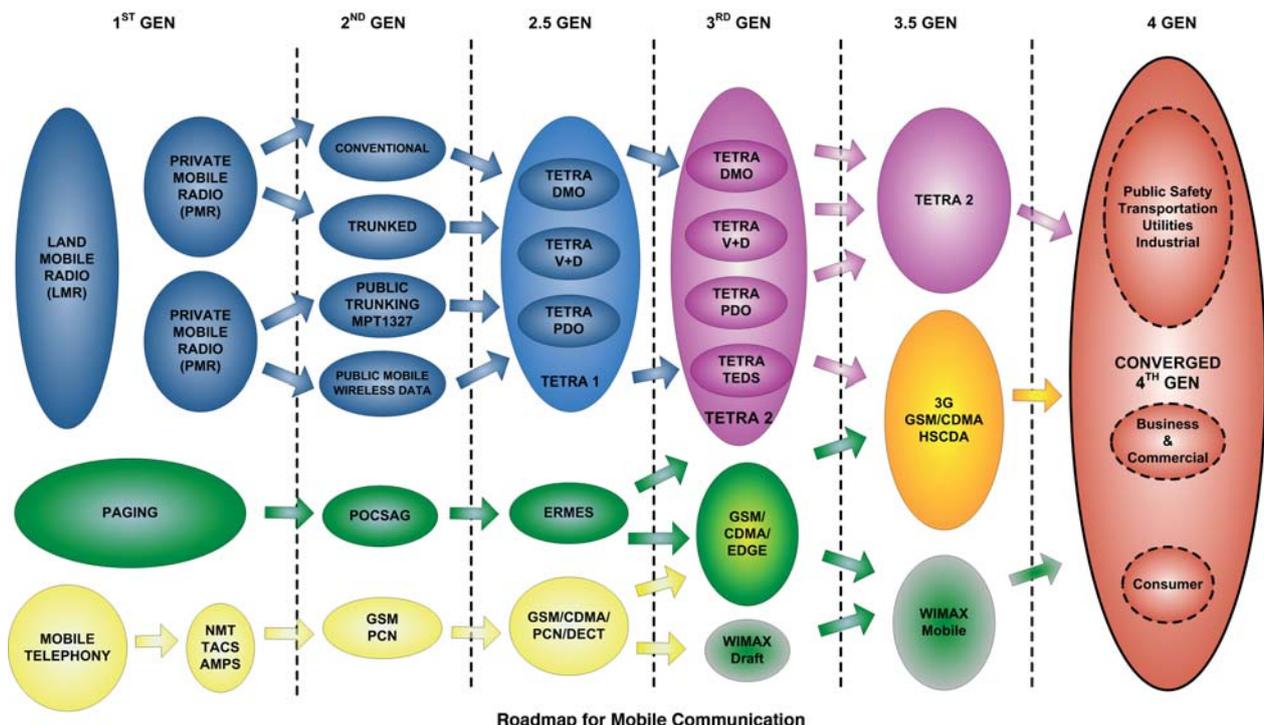
Mbps with (Non Line of Sight) NLOS coverage of up to 50 miles. Various manufacturers have claimed to be in beta testing phase to establish the true capabilities and performance of the standard. Handset manufacturers have committed to WIMAX phones by 2007-2008. However, how key issues of instant PTT group and individual calls, supplementary services, reliability and security will be solved which are the cornerstones of TETRA is yet to be determined.

- Digital Mobile Radio (DMR) is another initiative of ETSI to produce an open standard of radio communication for business and general commercial users. DMR has provisioned 3 tiers for product development of which Tier 3 applies for Trunked solutions in licensed VHF and UHF frequency bands.

Initially, there was a lot of interest in a standard that sits below TETRA in market positioning for non-mission critical users, but with TETRA infrastructure and handsets costs decreasing, coupled with the increasing popularity of GSM and CDMA, the big debate is whether there is a big enough market for manufacturers to commit to DMR.

Future TETRA v other technologies

TETRA is proposing a well defined migration path to the next generation public safety solutions through TETRA 2. TETRA 2 aims to provide an upgrade strategy for currently deployed TETRA 1 networks. TETRA 2 seems to be a strong contender for next generation public safety networks before true convergence of Cellular and PMR technologies to a last mile broadband standard which offers security, resilience and quality of service.



TETRA Focus: TETRA – Today & Tomorrow

Stating the Case for Cost

Steve Barber, Market Development Manager for Sepura

The majority of TETRA deployments to date are for governments. Can the cost of public safety be measured in terms of ROI?

The deployment of a public safety radio network is controlled through a need to get best value for money while fulfilling the operational requirements of that public safety organisation. Typically a government will study different technologies and solutions available in the market and identify which features best meet their requirements, from a management, regulatory, operational and financial point of view.

As part of the procurement process tendering is usually technology independent so that each organisation can evaluate the proposed solutions not the technology. Something that always scores very highly in this process is the health and safety of the users and the public in general. The TETRA industry recognised this at an early stage and introduced innovative solutions focusing on health and safety, for example, ranging from secure, reliable and covert communications, to highly accurate person location systems.

Whilst TETRA offers these features and public safety users worldwide benefit from them the industry still has to recognise that governments require value for money. For some governments ROI is a critical issue and operational efficiency must be proven such that the business case for TETRA is clear.

To support this Business Case the management and efficiency of the network and spectrum, plus the cost to manage, service and support terminals are key strengths in the TETRA offering. This flexibility and commitment from the TETRA community positions TETRA technology at the forefront of any public safety communications.

As testament to this, governments that invest in TETRA communications have invested in a secure technology that is focused on meeting their needs now and in the future.

TETRA has a committed roadmap, fusing mission critical secure voice and data communications, with the demand for higher speed data.

As the TETRA market is now growing fast, all users old and new will benefit from the competitive situation. Competition is the catalyst to better, more innovative solutions demanded by public safety users worldwide.

In the current climate where the world is at war with terrorists, the decision to use the most advanced and secure radio system for homeland security, is not a matter of ROI but protection of life.

TETRA is positioned as being the only technology that can truly deliver immediate and secure communications for emergency services. How are the costs agreed/established if there is effectively no competitive pricing?

It is totally untrue to say that there is no competitive pricing in TETRA.

TETRA not only has to compete against other traditional PMR radio technologies (standardised and proprietary) but also against adaptations from the cellular world. The fact that TETRA stands strong in its own right and is now becoming the technology of choice proves just how well it meets the demands of public safety users worldwide.

Within the TETRA market there is a large choice of suppliers of networks, terminals and applications, all providing solutions for the vast array of operational requirements across the market.

Even though the TETRA market is rapidly expanding throughout the world the competition for contracts has never been fiercer, resulting in a market where product and service prices are falling as variety of solutions increases.

An equally important consideration is the reducing cost of TETRA ownership. Software is being developed to facilitate and semi-automate fleet mapping, terminal programming and support, plus asset management etc.

How does the cost of TETRA compare with other technologies in the non-public safety market – transport, utilities etc?

For many applications TETRA compares very favourably with other technologies, especially in terms of operational efficiencies.

Many of the features developed in TETRA for public safety users also have a place in other markets like transport or utilities. For example

one of the strengths of TETRA is transferring data to another terminal when no network coverage exists using the DMO service.

An example of a transport application is the support of dynamic “hurry” signals for a bus, in this case if a bus is running late and needs traffic signals to change so that it can catch up then it could signal in DMO to the traffic lights. In a society that now penalises transport operators for not meeting timetables this is a useful tool.

In the utilities sector, an example is the remote reading and alarming of power substations using TETRA. Currently many utilities use GSM technology and incur a monthly charge, with TETRA they can manage and control their own readings with near instantaneous alarm reporting. The two major benefits of this to the utility company are that there is no ongoing and potentially unpredictable monthly cost, plus they know the grade of service that will be achieved with TETRA. How many times have cellular networks failed when there is an emergency?

Is the technology future-proof enough to justify a high level of investment now, bearing in mind it is over ten years old?

Only in the last five years has there been volume deployment of TETRA and only in the last year have we seen the conclusion of the international debate regarding which digital PMR technology will become dominant for public safety users worldwide. This was when Germany and a number of other countries selected TETRA. It would be fair to say that the best is yet to come with market forecasts showing a growing take-up of TETRA for at least the next ten years. To date TETRA has been exploited mostly for its secure voice communications capabilities. Now its use for mixed voice and data communications is taking off.

TETRA suppliers are all constantly developing new features to make their products more attractive to users and more importantly the introduction of high speed data in 2-3 years time will create an even bigger need for the technology and solutions around it.

Solutions will be based upon end user operational requirements and only TETRA can provide the transport mechanism to deliver the secure voice and data services demanded of customers. Other technologies may provide the data bandwidth but none offer the same level of security or the mission critical voice and data performance of a TETRA solution.

Global News in Brief

APD for Abu Dhabi Police APD has won a contract to deliver its CORTEX control room, vehicle tracking, personal location, and mobile data solutions to Abu Dhabi Police, helping the force to provide a secure environment to their people. Nokia is prime contractor; main subcontractors are EADS Secure Networks for digital radio communications and infrastructure, APD for control rooms and mobile data solutions and Atlas Telecom, the in-country Systems Integrator.

China – Beijing office opening

Team Simoco has opened its flagship new offices in Beijing. The company has secured and delivered a number of advanced radio communications projects within the Chinese market, including a major radio system deployment for a 1000km stretch of the Kazakhstan-China oil and gas pipeline.



Mike Norfield, managing director of Team Simoco, at the official opening with Zheng Zu Hui, Vice Director of the Communication Branch Committee of the Chinese Institute of Electronics.

Beijing network doubles in size

EADS and Beijing JustTop Communication Co., Ltd. have signed a contract to expand the Beijing Government Shared TETRA Network, the largest digital trunking network in the Asia Pacific region. The extension will double the current network size both in terms of capacity and number of users.

Colombia – Largest TETRA system for urban trunk bus

Teltronic has signed an agreement with TRANSMILENIO, the urban transport public operator in Bogota, to deliver a radio communications network in the metropolitan area that will transport eight million people.

Teltronic has become the selected subcontractor to supply the TETRA system for EMCALI, the public company that provides water management, energy and telecommunication services to the city of Cali.

France – Aix-en-Provence chooses Sepura The city of Aix-en-Provence has chosen Sepura TETRA radios for its municipal organisations. The radios will be used within the framework of a digital geo-localisation service implemented by Sepura's French partner SYS&COM.

Germany – TETRA takes off at Munich airport Motorola has won a contract to supply a TETRA digital radio system to Munich Airport, the second largest airport in Germany. The deployment is scheduled for completion by the end of June 2007.

Lithuania's Ministry of Interior Selects Motorola Motorola and local distributor JSC INTA will deliver a nationwide TETRA network for Lithuania, serving the border guard, customs, emergency services (police, fire and ambulance) and the state secret service. An IP-based TETRA solution, the network will support data transmission, enabling public safety organizations to send data – such as fingerprints, passport information, license plates and pictures – to and from handheld TETRA devices and central computer systems. Completion is due by Q4 2007. The contract also includes 6,200 TETRA radio devices with GPS to pinpoint the users' location.

Malaysia – first TETRA system Together with SI companies JEBSEN & JESSEN and COMINTEL, Teltronic has supplied the first TETRA system in Malaysia to Port Tanjung Pelepas (PTP).

Mexico – Alcatel appoints Teltronic Teltronic will supply TETRA infrastructure and on-board subsystems to Alcatel for the new Buenavista-Cuautitlán suburban train in Mexico D.F., expected to transport over 100 million people a year.

Peru – Rapid delivery for Lima Lima has chosen Sepura TETRA radio terminals for use in the municipality of Surco, its cultural and historic centre. The radios will operate on digital infrastructure supplied by Thales that will later be extended to a larger system that will include Lima's other nineteen municipalities. The Lima-based systems integrator Mastercom will carry out the implementation of the project for Surco.

Sepura success in South Korea The Korean National Emergency Management Agency (NEMA) has approved Sepura TETRA radio terminals for use on Korea's nationwide public safety network, which is currently entering its first phase of deployment. This approval enables government agencies to acquire Sepura TETRA radios directly from the Korea On-Line Electric Procurement System (KONEPS) that services all South Korea's public and governmental organisations.

Spain – Teltronic for transport Teltronic has been chosen to supply the infrastructure for TETRA digital radio communications in Barcelona Underground, Line 9, the largest underground line in Europe. The Administration of Cataluña selected both Abertis Telecom and Teltronic TETRA technology for the phase of wireless and mobile communications between the trains and the central control station.

Also on the railways, Teltronic has been chosen for the Government of Valencia Railways (FGV) to supply a TETRA system for the Mercado-Altea stretch of the Alicante-Denia line, and both the TETRA system and the terminals for the Light Train of Parla, Madrid.

In cooperation with the Spanish S.I. leader SAMPOL TELECOM, Teltronic has provided a TETRA system for the new subway line of Mallorca.

Sweden – Connex connects with TETRA Connex, one of Sweden's major transport organisations, has chosen Sepura TETRA radios for use on its buses in the city of Umeå. Swedish Radio Supply AB (SRS), Sepura's distributor in Scandinavia, together with its partner LTS, will jointly deliver the new communication system.

Bespoke solution for nuclear plant Zenitel is installing a digital TETRA solution for plant and critical communications at the OKG nuclear power plant on the south east Swedish coast. Implementation is due to be completed by mid 2007.

UK – Police sign up to Arqiva's mobile data trial

The Avon & Somerset Constabulary is trialling Arqiva's Police Mobile Data Solution. The fully managed solution allows officers to perform essential data operations, such as checking suspect and vehicle details, address mapping functions, and will soon provide the ability to receive briefing documents via their in-car devices.



Northgate appoints new Divisional Director for Criminal Justice and Public Safety Northgate Information Solutions has appointed Ian Blackhurst as Divisional Director for Criminal Justice and Public Safety within the Public Services division.



IFEMA Convention Centre, Madrid

Programme overview – 11-14 June 2007

To register :

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Fax: + 44 (0) 207 017 7825

Email: registrations@iir-telecoms.com

www.tetraworldcongress.com

MONDAY 11TH JUNE: TETRA SEMINARS

09.00 – 17.00 Whole Day Seminar - An Introduction to TETRA

MORNING SEMINARS

09.00 – 12.30 Operational & Financial Models Network Deployment & Management TETRA for The Oil and Gas Industry PEI & TETRA Applications

AFTERNOON SEMINARS

14.00–17.30 Future of TETRA Indoor Communications TETRA Security Training TETRA Users

18.00 TETRA MoU ASSOCIATION AGM

TUESDAY 12TH JUNE: CONGRESS DAY 1

PLENARY SESSIONS: TETRA TODAY

09.30 **SESSION 1:** TETRA Market News; TETRA in Action: Aftermath of July 7th London Bombings

10.40 Morning Coffee and Opportunity to Visit the TWC Exhibition and Applications Village

11.30 **SESSION 2:** New Networks - Qatar; Mature Networks - Madrid; Keynote: TETRA and ETSI

12.45 – 14.30 Lunch and opportunity to visit the TWC Exhibition and Applications Village

13.00 TETRA Association Press Conference

STREAM A

14.30 Public Safety & Military

STREAM B

Transportation

STREAM C

Utilities & Commercial

15.50 Afternoon Tea and Opportunity to Visit the TWC Exhibition and Applications Village

16.30 Public Safety & Military

Transportation

Utilities & Commercial

18.00 Drinks Reception in the Exhibition

WEDNESDAY 13TH JUNE: CONGRESS DAY 2

PLENARY SESSIONS: TETRA TOMORROW

09.15 **SESSION 3:** User Requirements; New Applications and Services; TETRA Innovation;

10.35 Morning Coffee and Opportunity to Visit the TWC Exhibition and Applications Village

11.25 **SESSION 4:** Release 2, TEDS & Complementary Technologies; Future Direction of TETRA

12.45 Lunch and Opportunity to Visit the TWC Exhibition and Applications Village

STREAM D

14.30 TETRA Applications

STREAM E

Operating TETRA

STREAM F

Solutions & Innovations

15.50 Afternoon Tea and Opportunity to Visit the TWC Exhibition and Applications Village

16.35 TETRA Applications

Operating TETRA

Solutions & Innovations

18.30 TWC Gala Evening & Awards

THURSDAY 14TH JUNE: CONGRESS DAY 3

PLENARY SESSIONS: MEETING THE CHALLENGES

09.15 **SESSION 5:** Global Threats & The Media; Panama Canal; French Army in Africa; UAE

10.40 Morning Coffee and Opportunity to Visit the TWC Exhibition and Applications Village

11.30 **SESSION 6:** Innovation Showcase; TETRA Security; Closing Address & Round-up

12.30 Lunch and Last Opportunity To Visit the TWC Exhibition and Applications Village

TETRA MASTERCLASSES

14.00-17.30 TETRA Network Clinic Defence & Crisis Management TETRA For Railways Communication Rooms On-Site Communications

18.00 **EXCURSION**

TETRA events in 2007

Full details can be found on the websites below

2007 Event	Region/City	Date	Website
TETRA Today in Turkey	Istanbul	29 March	www.tetramou.com
Pro-M zrt/TETRA Forum Hungary Users Day	Budapest	05 April	www.tetraforum.hu
TETRA Health Update	London	24 April	www.tetramou.com
BAPCO	London	25-26 April	www.bapco.co.uk
TETRA World Congress	Madrid	11-14 June	www.tetraworldcongress.com
TETRA Today in China	Beijing	05 September	www.tetramou.com
TETRA Today in Argentina	Buenos Aires	08 October	www.tetramou.com
TETRA Today in SE Asia	Singapore	Q4 Date TBA	www.tetramou.com



John Gherghetta, corporate vice president & general manager, Motorola Networks & Enterprise, EMEA, hosts the Ten Years of TETRA event in London

Motorola celebrates Ten Years of TETRA with O2 Airwave contract

Motorola marked 10 years of commercial TETRA with a celebration evening and the signing of the world's first commercial contract for TETRA PDAs with O2 Airwave. The MTC100 PDAs will run a suite of applications developed by O2 Airwave and help to deliver critical intelligence to front line workers in the emergency services. Police officers will be able to use the secure TETRA network to ensure data integrity, remotely accessing criminal intelligence databases such as the Police National Computer and other sources, as well as compiling and submitting crime reports without having to return to a police station. O2 Airwave will be the first TETRA network in the world to offer its users TETRA PDAs.

Supporting ETSI at ExpoComm Mexico

The TETRA Association was delighted to join ETSI at Expo Comm in Mexico City. With a number of utility and public safety systems already implemented in Mexico, the TETRA presence generated a great deal of interest.

The TETRA Association, supported by ETSI, held a conference with local and international speakers. Phil Kidner, Association CEO, said: "I would like to thank the delegates and the speakers, some of whom travelled across the world to participate." Presentations will be made available to all members.



More information on products and companies in this edition can be found at <http://www.tetramou.com/signatories.aspx>

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TETRA News: Comments and contributions welcomed – please send to: editor@tetramou.com

For any other information please contact the TETRA Association's administration office by email: administration@tetramou.com or visit the Association's website at www.tetramou.com

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