

World Congress News

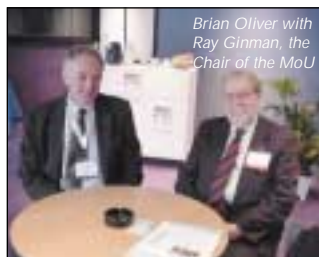
The 5th TETRA World Congress



Thursday, November 21, 2002

This year's award winners

Let's start with the Outstanding Contribution winner for 2002 As ever, a well deserved award to someone who may justifiably be considered as the father of TETRA, Mr Brian Oliver. Recently retired from his long and distinguished service as the Chair of ETSI project TETRA, Brian has charted a course for TETRA from the early days, winning respect from the industry as he pushed forward the technical and formal proceedings of the whole TETRA project. Using his skills as an accomplished chairman and a perceptive tactician, he has taken the project forward and has now handed over the reins to Doug Gray. Brian was 'delighted and surprised' at the award.



Brian Oliver with Ray Ginman, the Chair of the MoU

So, onto the 'Best Of TETRA' awards. First, the Best New Radio went to Nokia for their THR880

handportable. Its innovative colour display and two sided functionality



— one side a radio, the other a phone — has clearly caught everyone's imagination. Around the exhibition area, the Nokia staff wearing the phone were equally colourful!

The most innovative TETRA product award went to Sigma Wireless for their iVET Panel Antenna. With more and more focus on antennas and their visibility, this design is



clearly a winner.

The winner of the most innovative Application went this year to Infomatrix for their 'Missing Person's Application'. Judging by the interest in this application at the exhibition, Infomatrix will be finding a lot of customers for this



product.

Finally, the Most Innovative TETRA service award went to Siemens and Rhode & Schwartz for the ADONIS network that will give Austria its national Public Safety network.

The best stand award went to Nokia with an 'honourable mention' to Panorama as well.

More TETRA products to be announced today

For new products and enhanced features make sure you go and talk to the suppliers here in the Exhibition area.

Multiple Access Communications Limited has announced that the maximum sample rate of its CatchAll measurement receiver has just been doubled. It can now measure the received signal strength on every TETRA channel within a 5 MHz band 120 times every second.

Motorola's MBTS base station is heralded as the lightest dual-antenna 8-channel TETRA base available. Motorola believe its design will reduce maintenance costs and makes site acquisition easier.

Small but powerful IP performance from Motorola's Compact TETRA System is also promised and the capacity of the system has been increased to support up to 10,000 users.

Virtual Private Networks now a reality with Motorola's Dimetra IP

Virtual Private Networks or 'VPNs' is a term many are familiar with from the internet world. With IP technology available over TETRA networks, for example Motorola's Dimetra IP system, wireless VPNs are a reality for TETRA network operators and users.

Virtual Private Networks mean that it is now possible to have multiple agencies operating on the same TETRA network, without the risk of agency's calls being accidentally passed between each other. This is of critical importance in the public safety environment where police forces, for example, must be sure that emergency calls will be routed directly to them and not misrouted to another agency.

Bringing critical information to the point of decision is a key benefit but security is clearly an issue — private data needs to be kept private. A police officer whilst still in the field receiving mug shots or fingerprints directly from the control room needs the confidence that is

secure. For this reason, when traffic travels on a VPN, it is protected from the point it leaves the database to the point it arrives on a mobile data terminal. In Motorola's system it is protected by IPSec (Internet Protocol Security).

For TETRA network operators, the introduction of VPNs boosts business potential as it solves the previous security concerns from the use of the network by both public safety and commercial users. Operators can now assure customers of one hundred percent integrity in the partitioning between agencies.

With the current trend in the market to outsource the operation of wireless networks, the ability to share one common network enables economies of scale for operators which can be passed on to users. Virtual Private Networks are available on Motorola's Dimetra IP (SR5.0). For more information, visit Motorola's stand in the main exhibition area.

Fulfilling expectations? Delivering the Promise?

Today is the last of three packed days of conference. A full plenary day will start by tackling Next Generation Products and Services. Then it's on to Interoperability (theoretical and practical). After lunch, the conference will, quite rightly, focus on the future. The interview with TETRA Forums from around the world will be particularly revealing as we hear news of the initiatives and issues in their respective countries.

The conference will be closed by the TETRA Association Chair, Ray Ginman as he talks about Delivering the Promise. On day one, he asked whether TETRA was fulfilling user expectations. By the end of today you'll have made up your own mind. A South American delegate from a potential user organisation echoed the sentiments of many when she said, "It is a very good event for me. Everything is gathered together and I can talk to all the vendors directly. The conference is really good and very informative."

The vendor perspective was given by a representative from one of the smaller suppliers to the TETRA market who said, "This was much better than last year. We are very happy with the quality and number of delegates."

As the Congress draws to an end it looks as though most people would agree with Ray Ginman's opening comment on Tuesday when he concluded that user expectations are being met but more can still be done.



In this issue: The 2002 Award Winners; VPNs in action; TETRA potential fulfilled; Masterclasses previewed; World Congress round-up.

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Teltronic's new NEBULA distributed infrastructure uses Ethernet/IP

Teltronic S.A., the innovative Spanish PMR company, has announced a highly distributed architecture which includes all the TETRA layer 2 protocols in its base stations, so no synchronous communication is needed between base stations and the Central Node Controllers (CNC). This technique greatly increases the network's resilience and ability to continue operation even when the network is badly degraded by external or technical events. According to Teltronic, this feature means any existing Ethernet network can be used as a backbone to setup a NEBULA network, with minimum bandwidth requirements (typically 64 kbps per carrier). Cisco routers can also be used with a simultaneous bridging and routing functionality: bridging for Ethernet voice packets and routing

for data and control packets and other corporate traffic as well. The use of the Ethernet layer for voice traffic, allocating a minimum bandwidth and granting a higher priority than that for IP traffic overcomes the typical challenges of using IP as a backbone for TETRA. Voice packet delays averaging between 3 and 4 milliseconds per Cisco node have been measured under real conditions in heavy loaded networks, allocating 64 kbps only for bridging traffic. In practice, the delays from negotiating a series of nodes would be unlikely to exceed the threshold values defined by the TETRA standard.

For more details, visit Teltronic's exhibit in the main exhibition area here at the World Congress. The exhibition area will close at 16:00, so don't miss your last opportunity to view.

'Au revoir Nice' and 'Goddag København'

It's goodbye and thank you to Nice and hello to Copenhagen. The 2003 TETRA World Congress will be in Denmark. Put the date in your diaries now — November 24th to 28th at the Bella Centre, just outside Copenhagen. Served by the new Copenhagen Metro line (TETRA communication users of course!) the Bella Centre is an ideal venue for this, the largest annual event for TETRA users, manufacturers and regulators from around the world.

Other events for your diary
IIR will be holding their TETRA Applications Seminars in April 2003 in London. Keep a look out as well for details of a new event aimed at everyone who need to dispatch and manage field based resources to respond to emergency or routine incidents. The Integra-ted Incident Response & Management Technologies Conference & Exhibition is planned for June 2003 in Amsterdam. *For more information, visit www.iirmt.com.*

TETRA Masterclasses

And there's more.....

Are you staying on for the Masterclasses tomorrow? Five tailored sessions have been specially designed to tackle a number of key issues:

- ü Provision of Service in Key Locations*
- ü Network Planning, Deployment and Optimisation*
- ü Systems Integration*
- ü IP over TETRA and TETRA over IP*
- ü Marketing TETRA to your End Users*

These are the opportunities to get to grips with subjects in great detail. Specially designed for expert representatives from user and technical organisations, the Masterclasses will round off a full week of information exchange and debate at the World Congress.



teltronic
professional personal communication



NEBULA

Teltronic NEBULA Tetra Infrastructure based on IP/ETHERNET technology

Our portfolio includes Infrastructure, Mobile and Dispatcher TETRA terminals, Coordination and Communication Centres for public safety fleet management, Automatic Vehicle Location Systems (AVLS) and Mobile Data Applications.



Teltronic MDT-400 Tetra MobileTerminal



Teltronic Coordination and Communication Centre

See us in Nice at TETRA World Congress Stand 39-41!

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Right at the heart of the action

NOKIA THR880

Complete commitment. The Nokia THR880 TETRA portable phone will help you answer every call of duty. The original two-sided concept doubles its effectiveness. Designed to be part of the work outfit, it boosts your performance as a public safety professional and frees you to concentrate on the task at hand.

When duty calls, it's the one to trust.

- Unique two-sided concept: phone on one side, radio on the other side
- Wearable active holder for optimised ergonomics – no need for an additional microphone or speaker
- Voice feedback for efficient and reliable operation
- Colour display
- Protective membranes and elastomer bumpers to resist water, dust and knocks
- WAP and IP packet data for efficient connectivity



NOKIA
CONNECTING PEOPLE

Safer. Smarter. Better.

Integrated Communication Solutions



Motorola's TETRA communication solutions provide the interoperability and encryption capabilities you need to ensure quick information retrieval and fast response under demanding conditions.

With over 70 years of experience serving the mission-critical needs of public safety, transportation, special services, military and governmental organisations worldwide, you can trust Motorola to help you identify and provide the right solutions to meet your needs.

Motorola offers a vast portfolio of technologies and applications to deliver the intelligence you need, where you need it and when you need it most.

Expand your possibilities with rapid, mobile intelligence from Motorola.

*For more information, please visit us at the **TETRA World Congress** or at www.motorola.com/tetra*

