

If you would like more information about any of the articles in this newsletter, please either contact the relevant person whose details are at the end of each article, or call me on + 49 8153 8867 88. **Axel Jahn**

Networking the sky

The NEWSKY project is coming to an end. The vision of Networking the Sky has been the development of a mobile aeronautical communication network, integrating satellite and terrestrial data links.

The project's final workshop and demonstration will be held at the German Aerospace Centre (DLR) near Munich on 6 October.

A range of network solutions will be presented, including network and transport layer design, Quality of Service, mobility, and security, along with graphical weather maps, CPDLC and VoIP, and passenger connectivity.

Our part is the integration of satellite and terrestrial links, which enables handover between different satellite and terrestrial communication links.

For more information about NEWSKY and the final workshop, please contact Markus Werner on markus.werner@triagnosys.com

The world's cheapest satellite calls

Using satellites is expensive, which is why we have invested so much time and effort into developing VoCeM, the world's most efficient satellite communications compression software. Because we can reduce satellite costs so much, call costs for the end user are much lower. VoCeM can also be used to increase the number of simultaneous calls each satellite link can handle.

For GSM	
No optimisation	29.2 kbit/s
VoCeM	5.5 kbit/s



For VoIP	
No optimisation	40.0 kbit/s
VoCeM	8.8 kbit/s



TriaGnoSys currently also works to reach 3 kbit/s per call.

Using VoCeM compressor technology, Inmarsat or Ku-band payload usage can be increased by a factor of between 5 and 10. And what is even better is that it is a simple software upgrade that can be installed on any existing GSM, 3G/UMTS and VoIP communications servers.

VoCeM can be used for all forms of remote communications systems, including passenger and crew GSM and VoIP services on ships and aircraft.

It is not magic – it is the application of state of the art transcoding and compression techniques combined with innovative kilobit transmission technology. The promise of onboard and remote communications services has always been that the experience will be the same as standard terrestrial services. The technology to make that happen has been available for some time, but at a cost. The introduction of VoCeM, bringing down call costs, means the promise is now reality.

For more information, contact Axel Jahn on axel.jahn@triagnosys.com

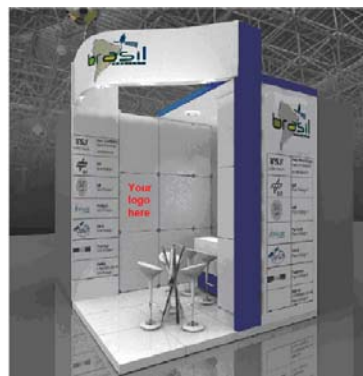
Brazil – your next market?

Do you work in the DVB-RCS sector? Do you want new customers? Then read on.

We are part of the BRASIL project (Broadband to Rural Areas using Satellite Integrated Links), which uses DVB-RCS technology to provide broadband to rural areas in Latin America. A part of the project is to bring together small and medium-sized technology specialists, internet service providers and content providers in Europe and Latin America.

We are offering the opportunity for European and Latin American companies to display their products/services at Latin America's most prestigious telecoms and IT event – Futurecom.

There are three great value packages available, starting at only \$100.



You can find out more about the BRASIL project at www.dvb-brasil.org, and the Futurecom website is www.futurecom2009.com.br

For more information about exhibiting at Futurecom, contact Charlie Pryor on cp@thewordshop.com

Come and see us in California

Once again, we have a stand at the World Airline Entertainment Association (WAEA) Annual Conference, which this year is in Palm Springs, California, from 5-8th October.

We will have a live demonstration of our inflight Voice over IP solution on the stand (number 210), so come and see us.



For more information, contact Matthias Holzbock on matthias.holzbock@triagnosys.com

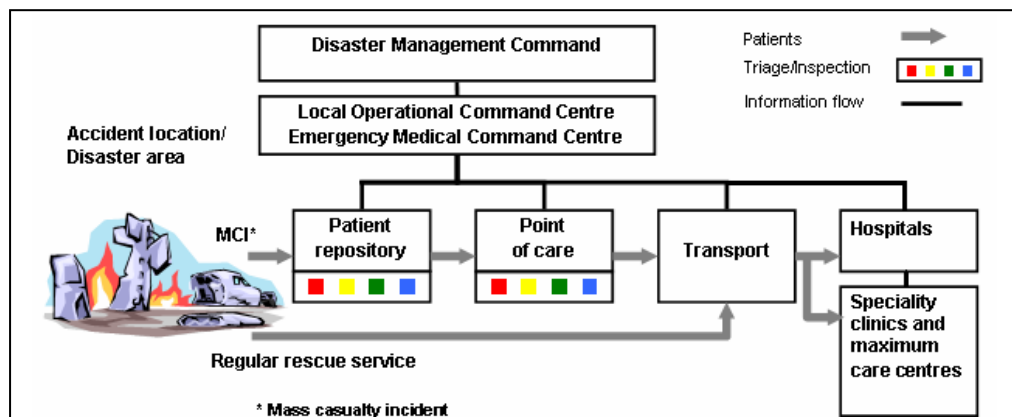
e-Triage – efficient crisis management

Satellite communications can be used in many ways and one of the areas we are working on is e-Triage.

Triage is a way of classifying injuries that occur as a result of disasters – Mass Casualty Incidents (MCI). Each casualty is assessed by medics and classified according to the severity and treatability of their injuries. The assessment is attached to the patient. Rescue forces subsequently use the inspection results to prioritise the treatment and transport of those affected.

The classification is a paper document that moves with the patient. This makes central management of the incident very difficult: it is impractical for copies of the assessment to be sent to a command centre and very difficult to keep a track of each patient as they move through the system. Despite the professionalism of the emergency services, an MCI can be a chaotic environment.

The concept of e-Triage is the development of a system for the electronic registration of victims, replacing the paper system, providing a communication and database system for everyone involved in the rescue, transportation and treatment of victims, including the first responders and local hospitals. In addition, the patient will have GPS tag providing location information, enabling the command centre, emergency transport and hospitals to plan accordingly.



One of the most common factors of MCIs is that the local telecommunications network is temporarily disabled, and this is where satellite communications comes in. All the e-Triage information can be transmitted via satellite. The equipment needed is small – it can be carried in a back-pack – and it takes a matter of minutes to set up. Our research into the development of e-Triage has just started and is expected to finish in 2012. We will keep you updated.

For more information, contact Markus Werner on markus.werner@triagnosys.com

Making flying better

Flying isn't as glamorous as it used to be. Just getting through the airport can be hard enough. That is why TriaGnoSys been working on a research project called E-Cab – E-enabled Cabin and Associated Logistic for Improved Passenger Services and Operational Efficiency.

The research has focused on the development of improved services in four different services areas: moving people through airports, passenger services, freight handling and catering services. Most importantly, E-Cab developed the technology to interconnect all four areas to increase efficiency, reduce costs, and improve the passenger journey.

As you would expect, our role has been in satellite communications; specifically providing inflight 3G services for passengers and crew, as well as inflight communications management for a range of operational and passenger services.

In May, all the E-Cab research came together in a demonstration, which included our 3G services, to Europe's leading airlines, airports, manufacturers and service providers. The reaction was overwhelmingly positive and we confidently expect flying to get better.

For more information, contact Axel Jahn on axel.jahn@triagnosys.com. More information about E-Cab is available at www.e-cab.eu

Train tracking

Along with Thales, we have developed a product, available next year, which provides an independent tracking system for wagons, locomotives and block trains.

It will help improve the productivity of train freight, and reduce costs, through more effective operational and maintenance management.

It works by sending real-time GSM information by satellite to a control centre. As well as providing the satellite communications technology, our optimisation and compression techniques mean it is very cost effective.

And what is very clever is that it harvests power from vibrations and changes in temperature, meaning it will run for nine years without maintenance.

For more information, contact Axel Jahn on axel.jahn@triagnosys.com.