

Everyone at TriaGnoSys sends you Season's Greetings and wishes you a Happy New Year



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

### Next generation of cabin networks

TriaGnoSys and VT Miltope have formed a strategic partnership to provide end-to-end systems for in-cabin networks, focused on developing network backbones for aircraft, over which a range of services can be offered to passengers and crew.



Central to the offer is totally flexible cabin network design. The wide range of potential applications gives airlines, and therefore their passengers, a large number of choices.

Applications include:

- broadband Internet access for both crew and passengers
- voice services
- transmission of non-flight critical crew information, such as electronic flight bags, weather reports and cabin inventory reports
- management of the inflight entertainment system



TriaGnoSys provides highly efficient satellite communications software, in-cabin communications control and applications, and the relevant access technology.

VT Miltope provides the complete portfolio of aircraft network products, designed to be remotely managed, scalable, interchangeable and upgradeable.

The two companies have been in discussion with a mobile phone provider, as well as both airlines and airframe manufacturers. Early customers are likely to be airlines providing Internet connectivity to their passengers.

For more information, contact Axel Jahn on [axel.jahn@triagnosys.com](mailto:axel.jahn@triagnosys.com)

### Calls from the deep

Now that our technology is successfully flying on commercial aircraft, allowing passengers to use mobile phones and PDAs, we are about to launch GSM service for ships' passengers and crew.



We will be providing the end-to-end solution that will allow anyone on the high seas to remain in contact just as if they were in the middle of a city, using their own devices. TriaGnoSys is working with several mobile operators to provide roaming service for various regions of the world.

Passengers and crew will be able to use:

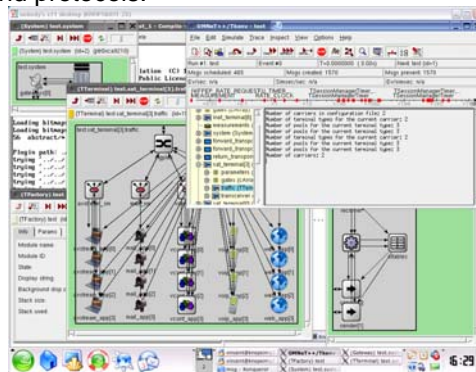
- mobile phones for voice calls and SMS services
- PDAs to access email
- any 3G device to surf the Internet

These services are built on TriaGnoSys' cutting-edge satellite communications technology. The technology minimises satellite usage, ensures satellite use is cost-effective. It means that satellite-based connectivity is now a financially-viable option for mass communication.

For more information, contact Axel Jahn on [axel.jahn@triagnosys.com](mailto:axel.jahn@triagnosys.com)

### Simulator for DVB-RCS satellite networks

Bringing down the cost of satellite communications is key to the future use of satellite systems. TriaGnoSys developed a simulator for DVB-RCS networks in a European Space Agency project. The project aimed to develop efficient radio resource management using fade mitigation techniques to reduce the service cost of satellite systems. The simulator allows in-depth modelling of the satellite system, and implements various RRM architecture, algorithms and protocols.



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## Satellites can save lives

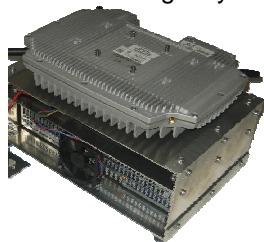
With sirens blaring, 20 fire engines and ambulances tore into the smoke-covered field at the German Aerospace Centre (DLR) outside the village of Wessling, near Munich. One hundred and twenty firefighters, emergency physicians and Bavarian Red Cross teams sought and found the dead and injured, gave them emergency first aid where possible, assessed and classified the extent of their injuries. The injured were taken to hospital.

Waiting hospital staff had two great advantages. Before the victims reached them, their patient records had arrived, via the on-site emergency doctors' PDAs. The rescue team could also check, in real time, the exact location of each patient using GPS pinpointing. The combination of both pieces of information meant the rescue coordinator at hospital and in the field could plan patients' treatment well before they arrived.



Both the patient and geo-location information data was transmitted by satellite, making it independent of the local communications infrastructure, which could have been destroyed and disabled by the emergency. And all the communications hardware was carried to the smoke-covered site in a single suitcase, carried by one person, providing WLAN data and GSM communication to the rescue team.

This was of course a simulated emergency, designed both to test and to demonstrate one of the key applications of a new satellite communications system, designed by TriaGnoSys, that will help to save lives in real emergency situations.



The demonstration showed one of the key uses of satellite communications as first-line emergency responders. The technology can also be used in natural disaster situations, often where the local telecoms infrastructure has been destroyed or is non-existent in the first place and where there is often no contingency for emergencies.

For more information contact Markus Werner on [Markus.Werner@triagnosys.com](mailto:Markus.Werner@triagnosys.com)



## The plane is the new office extension

The next generation of inflight voice over Internet services is now available as part of Thales' inflight broadband connectivity solution, thanks to TriaGnoSys. We provide the satellite communications management for the connectivity server and billing processes.

The powerful state of the art technology allows...

1. ...aircraft owners and their passengers to use wired Voice over IP (VoIP) phones, wireless SIP phones and UMA phones that have dual GSM and WiFi bands
2. ...business jets to be treated as an extension to the telephone network or a company's switchboard (Private Branch Exchange, PBX)
3. ...a range of billing options

# THALES



The voice services rely Inmarsat's SwiftBroadband satellite connection, with minimising satellite usage for low operational cost.

What it means is that each phone on the plane has a telephone or company extension number with all the benefits that provides – call transfers, internal conference calls, voicemail access and so on. And all this is available in conjunction with broadband Internet access. The plane now really is an extension of the office.

For more information, contact Axel Jahn on [axel.jahn@triagnosys.com](mailto:axel.jahn@triagnosys.com)

**\*\*\*\*\*NEW BUSINESS OPPORTUNITY\*\*\*\*\***

The BRASIL Business Exchange is now up and running, with companies from Europe and Latin America becoming involved.

BRASIL stands for Broadband to Rural America over Satellite Integrated Links, and it is a European Union-funded project that uses DVB-RCS technology to provide broadband Internet access to rural – and often very poor – areas of Latin America.

This is an opportunity to access new markets.

If you are interested in becoming involved, please go to <http://www.dvb-brasil.org/Form/form3.html> to register your details.

For more information, contact Axel Jahn on [axel.jahn@triagnosys.com](mailto:axel.jahn@triagnosys.com)