

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**

Meet us at Aircraft Interiors

For the first time, TriaGnoSys will be exhibiting at the world's most sophisticated cabin interiors exhibition, the 10th Aircraft Interiors Expo 2009, in Hamburg from 31 March to 2 April. Aircraft Interiors is Europe's leading event for inflight communications, inflight entertainment and cabin interiors.

We will be exhibiting two new solutions. The first is inflight **GSM roaming**, with our partner **Skuku**. And the second is a major development in **Ku-band inflight connectivity**, but you will have to come to our stand to find out more.

See you at Aircraft Interiors in Hamburg on our stand, 6C1



A new departure for inflight GSM

Working with Skuku, we have developed a new concept in inflight GSM.

The way it works is that passengers plug their SIM card into a reader and then they can use seat-back screens or in-seat phones for phone calls and text messages. It works on aircraft with Internet connectivity, seat-back phones, or Inmarsat and Iridium satellite phones.

It is very simple for an airline, or a business jet owner or operator, to install and use. It requires only a software upgrade, with no hardware installation.

It is also very simple for passengers. The airline provides them with a SIM card reader that plugs into the USB port on the seat-back screen, or into the in-seat phone. They then put their SIM card in the reader and start calling and texting. SMSs are sent to and from the IFE screen, and softphones can be used for voice calls. Passengers can use their mobile number, they will have access to their address book, and they will be billed through their normal bills.



Costs are not high. The SIM card reader is not an expensive item, and airlines will either provide it free or for a nominal charge. And call costs will be very close to the normal prices people pay for domestic calls

From the success of current inflight GSM services, it is clear that passengers want access to SMSs and voice calls during flights. This is a highly efficient way of providing that service.

Skuku has developed the technology that uses SIM card data in ground GSM servers to provide roaming for voice and SMS. And TriaGnoSys has developed the software to enable Skuku to be used on aircraft.

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

The future of air traffic control

A central part of the air transport industry's future is increased efficiency. It provides the dual benefits of reducing costs, in particular fuel and time, and reducing the industry's environmental impact. Next generation aircraft and engines have a crucial role to play, as does air traffic management.

TriaGnoSys has been working as part of the NEWSKY consortium, headed by the German Aerospace Centre, to develop the technology to enable the seamless integration of IPv6-based satellite and air-to-ground communications. This new technology is designed to meet future air traffic control needs, in particular by increasing both available bandwidth and geographic reach, to enable both an increased level of data communications, and more strategic route planning.



We demonstrated the test-bed last week at the ATC Global conference in Amsterdam, using a combination of existing Inmarsat satellite technology and terrestrial communications links. It was an exact working model of the NEWSKY system, with 'true air' transmissions.

The test-bed showed advanced services including graphical weather maps and VoIP, as well as passenger Internet connectivity. Further air traffic services applications are under development, as well as applications for airline operation communications, airline administrative communications, and inflight passenger communications.

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