

TRIAGNOSYS TO DEMONSTRATE POWER OF INTEGRATING SATELLITE AND AIR-GROUND TECHNOLOGY FOR FUTURE OF AIR TRAFFIC CONTROL

Munich, 09 March 2009 – TriaGnoSys, a member of the NEWSKY consortium, will be displaying the next generation of air traffic control services at ATC Global 2009 in Amsterdam, 17-19 March. The NEWSKY network is designed to meet future air traffic control needs, in particular by increasing both available bandwidth and geographic reach, to enable both the increased level of data communications, and more strategic planning of flight routes.

TriaGnoSys' role in NEWSKY is the design, implementation and integration of a demonstrator test-bed to show the seamless integration of IPv6-based satellite and air-to-ground communications, which is the focus of the live demonstration at the leading event for air traffic management professionals. To that end, TriaGnoSys has developed and integrated the appropriate routing and mobility algorithms, system-level resource management strategies, and seamless hand-over techniques.

The integrated network being demonstrated at ATC Global, on stand H129, will show advanced services such as 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 correspondence, and inflight passenger communications.

Markus Werner, Managing Director of TriaGnoSys, said, "Using a combination of existing Inmarsat satellite technology and developing terrestrial communications links, in this case L-DACS1 as a prototype, we will be able to show 'true air' transmissions, not emulated links. What you will see at ATC Global is an exact working model of the cutting-edge NEWSKY system."

In the demonstration at ATC Global, two appropriate broadband communication segments are used to allow operation of several parallel calls and/or streams, meaning the feasibility of service prioritisation and Quality of Service support can be validated. In all cases IPv6 is baseline protocol version, providing effective future-proofing.

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In addition to the test-bed demonstration, simulations will show the NEWSKY approach on a large scale. The data traffic communication link characteristics and the overall network topology will be modelled to a high level of detail, to validate functions such as optimized IP mobility schemes and Quality of Service provision.

The modular architecture of the NEWSKY approach enables the cost-efficient integration of legacy and future data links for short range airport communications, as well as long range en-route data transfer, and satellite communications.

In addition, NEWSKY supports the move away from proprietary solutions in aviation to the use of commercial off-the-shelf Internet technologies. In this context, the International Civil Aviation Organization (ICAO) Council has recently approved an amendment to the Aeronautical Telecommunications Network (ATN) for the use of the IP Suite (IPS). The NEWSKY consortium has contributed to the definition of ATN/IPS, and the NEWSKY demonstration will be based on this specification.

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About TriaGnoSys

TriaGnoSys is the expert in aeronautical communication, information and media, enabling communications and information transfer from anywhere to anywhere.

TriaGnoSys develops advanced communication products for GSM, UMTS, VoIP and multi-media data, that utilise powerful compression rates to deliver low-cost and efficient data transmission.

TriaGnoSys solutions employ both satellite links, as well as direct air to ground links, to deploy its cutting-edge router software.

TriaGnoSys delivers tailored industry solutions by building strategic partnerships with OEMs, system integrators and service providers.

TriaGnoSys Research and Development focuses on a broad range of mobile communication research fields on subjects such as mobile end-to-end solutions, next generation satcom and aircom, and combined navigation/communications applications and technologies. TriaGnoSys views every research project as a potential commercial opportunity.

About NEWSKY

The NEWSKY - Networking the Sky – project is co-funded by the European Commission through the Sixth Framework Programme. The project is co-ordinated by the German Aerospace Center DLR and involves an international group of engineers and scientists from

Thales Alenia Space, QinetiQ, Frequentis, TriaGnoSys, Deutsche Flugsicherung DFS and the University of Salzburg. It is tasked with developing a vision for a heterogeneous and reliable communications system that replicates in the sky the power and scope of existing and future ground-based communications. For more information, visit www.newsky-fp6.eu .

List of project participants:

German Aerospace Center (DLR), Germany
Thales Alenia Space, France
Frequentis GmbH, Austria
TriaGnoSys GmbH, Germany
QinetiQ Ltd, UK
Universität Salzburg, Austria
Deutsche Flugsicherung GmbH (DFS), Germany

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