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## **Smart Communication for Tower Environments**

### **smartCom – The IP-based „Voice add on“ for Frequentis Tower Systems (TAPtools®)**

**The ATC Maastricht (February 13 – 15) is the ideal platform for presenting the new VoIP-based communication system smartCom. smartCom has been designed as “add-on Voice Services“ for tower systems based on the Frequentis TAPtools®. smartCom enables inter-product-functions, which are not available using TDM-based systems.**

The Internet Protocol (IP) has revolutionised communication and information exchange. It is a highly efficient, straightforward and cost-effective communication technology able to handle voice and data on the same network. VoIP opens up many possibilities. Frequentis, an internationally recognised technology leader, continually monitors future needs of voice communication environments. Ongoing research activities deal with highly available, fast and safe IP-communication solutions for Air Traffic Management.

#### **Frequentis smartCom – Live demonstration at ATC Maastricht**

In time for the ATC Maastricht, Frequentis unveils its fully integrated IP-based tower solution, based on a flexible and service oriented architecture, which complements the Frequentis tower automation product portfolio.

As part of the Frequentis tower automation solution, smartCom is the new VoIP-based communication add-on, especially designed for tower environments, providing the required communication functionality. smartCom and the Frequentis TAPtools® fit right in, adding new application possibilities (inter-product-functions) that provide a high level of usability.

Some of the benefits are:

- Best system interaction – smartCom for voice communication and smartLICOS for controlling runway lightning are accessible via a single touch screen
- Voice Control of smartStrips (electronic flight strips) using the speech recognition interface of smartCom
- Integration with recording systems (Frequentis DIVOSlog) for automatic recording of all communications at the tower operator position, including text search, on the DIVOSlog playback station
- Automatic sending of ATIS-information via the smartCom radio interface using smartATIS.

Voice-over-IP, as provided by smartCom, means more: greater operational and management efficiency, based on the same infrastructure, and improved safety by providing the same look and feel to all users.

**The latest references....**

The German Federal Defence Forces – open for innovation, yet always enforcing the very highest standards when it comes to new technologies – have been working with an IP-based voice/data system made by Frequentis since August 2006. The Swedish Defence Forces will deploy their IP-based Frequentis communication systems in 2007.

**....technology**

The Frequentis i-volution concept combines all network technologies, the proven circuit-switched technology as well as packet-based VoIP solutions. Unrivalled interoperability between services and the different network technologies provides the flexibility to use the best suited solution for each individual application. The proven VCS 3020X voice communication system successfully follows its IP migration path.

**...and developments bear witness to the Frequentis expertise**

Frequentis is an active member of the EUROCAE Working Group 67, which deals with the definition of VoIP in ATM communications. The focus lies on safety, security, and interoperability requirements as well as network management.

“We are proud to have been invited by EUROCAE to participate in this working group because this invitation underlines our position as internationally recognised technology provider,” states Hannes Bardach, Managing Director Frequentis.

**About Frequentis**

For Background Information about Frequentis please see [www.frequentis.com](http://www.frequentis.com).