



## *Press release*

### **Reduced environmental pollution by software from *delair***

**Braunschweig, Germany, 21<sup>st</sup> February 2007** – The demand for air traffic is increasing worldwide and highly congested airports such as London Heathrow and Frankfurt are operating at maximum capacity. At the same time pressure from the European Union on the air navigation service providers, airlines and airport operators is increasing to reduce emissions and environmental pollution. This can be achieved only in part by new generations of aircraft engines; therefore also the operational procedures in the air and on the ground have to be optimized to reduce engine running times. Software solutions from *delair* Air Traffic Systems GmbH can verifiably reduce environmental pollution through process optimisation and capacity exploitation.

According to current EU policies, air traffic will be included in emission trading in 2011. If airlines produce more emissions than permitted they will have to buy emission certificates. In 2012 this will expand to include flights between European Union and non European Union states. Airports and airport operators have to take action now to optimize their operating procedures in order to prevent financial losses.

The A-CDM (Advanced Collaborative Decision Making) family of products, developed by *delair*, helps to reduce fuel consumption, noise and pollutant emissions through reduced holdings, shorter flight times in the TMA (Terminal Manoeuvring Area), shorter taxi times before take-off and optimised procedures.

The product suite includes the A-CDM platform as the interface between *delair's* applications and external systems, as well as other advanced planning tools. The advanced tools consist of the arrival and departure manager "*darts*<sup>4D</sup>", which was developed in cooperation with DFS based on the DFS arrival manager "4D-Planer" and the departure manager "*darts*" from *delair*; furthermore the resource manager "*sally*" and the electronic flight strip system "*focus*". Both "*darts*" and



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"sally" have been in operation at Zurich airport since 2003 and the "4D-Planer" has been operational at Frankfurt airport since 2003. "darts" will be operational at Frankfurt airport in March 2007.

### **Distinctive reduction of environmental pollution at Zurich airport**

In 2004 the operator of Zurich airport analysed the effect of the departure manager "darts" as one of the most important parts of A-CDM. The results were reduced emissions of 4.2t NO<sub>x</sub>, 4.0t HC, 33.7t CO and 3,620t CO<sub>2</sub>. The most visible effect of this process optimisation was that "darts" reduced the waiting queues of departures during peak hours: In Zurich, this reduced the queues from 6-10 to 3-4 departures which subsequently has resulted in a reduction in fuel burn by 1,150 tons.

### **About *delair*:**

*delair* Air Traffic Systems GmbH was founded in 1997 by employees of the DLR (German Aerospace Research Centre) at the research airport Braunschweig. With the use of their know-how from research and development *delair* aimed at the development of innovative air traffic management systems.

*delair* develops systems to optimize processes of air traffic control, airport operators, airlines, and handling agents. The products of *delair* are in operation at the International Airports of Zurich and Frankfurt, where they are clearly reducing costs and improving airport processes.

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