

## **PRESS RELEASE - April 2009**

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### **Funkwerk Avionics demonstrates ADS-B for General Aviation**

On the first of April the first flight campaign in the frame of the Eurocontrol research project CRISTAL GA were performed by Funkwerk Avionics, involving four aircrafts from two flight clubs located in Egelsbach (EDFE).

Already in mid 2008 the four aircrafts - 3 Cessna C-172 and one Piper PA-28 – had been equipped with the respective ADS-B avionics. The correct functionality of the equipment was approved by Eurocontrol. In terms of ADS-B OUT (Transmission of ADS-B Data) a Mode-S transponder (TRT800A) from Funkwerk Avionics in combination with a GPS/WAAS Sensor from Free Flight Systems is used. In the frame of the project the requirements in the ADS-B OUT components were defined by ED-126/DO-303. In terms of ADS-B IN (Reception of ADS-B Data) an ADS-B Receiver from Selex Communications is used. The received data are processed and depicted by the ETSO certified cockpit display unit (CDTI-2000) from Funkwerk Avionics.

The scope of the flight trials was to evaluate the applicability of ADS-B for general aviation pilots. The cockpit display of traffic information (CDTI) enabled the pilots to recognize surrounding ADS-B OUT capable traffic. The flight trial consisted of several scenarios, which reflected everyday situations during VFR flights, for example integration in an aerodrome pattern, preceding traffic on approach, crossing and converging traffic. Furthermore it was assessed if the depiction of traffic could enhance the situational awareness. Additionally the usability of the CDTI was monitored.

During the lifetime of CRISTAL GA the collection of ADS-B data is performed. The data collection happens on board the four aircraft as well as on the ground by the THALES ADS-B ground station operated by Deutsche Flugsicherung DFS in Langen. The stored data are provided to Eurocontrol for further analyses.

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**Funkwerk Avionics** is based in Waal (Bavaria) and Ulm (Baden-Württemberg). Funkwerk Avionics is an EASA approved production and maintenance organisation for aircraft equipment (EASA Part 21G and 145). We develop, produce and sell avionics equipment and avionics system solutions in the areas of communication, navigation and displays. The company offers the "Filser" product lines of TRT Mode-S transponders and ATR VHF voice radios for general aviation. The products are sold to aircraft manufacturers and via a comprehensive dealer network all over Europe. Funkwerk Avionics also develops avionics equipment and system solutions for major OEM companies such as Airbus Deutschland, EADS Deutschland and public agencies such as Eurocontrol or the European Space Agency (ESA).

Based in Köllda near Erfurt, **Funkwerk AG** develops, produces and markets professional communication systems used in vehicles, transport and other companies and institutions. With its three segments Traffic & Control Communication (professional communication and information systems for transport and industry), Automotive Communication (communication equipment for vehicles) and Enterprise Communication (messaging systems and network solutions for companies and institutions), Funkwerk occupies a strategically excellent position in future markets. With over 1,600 employees, Funkwerk generates sales of some 300 mill. Euro.

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