

AIRPORT COLOGNE/BONN

GERMANY
DIGITAL RADIO
NETWORK FOR THE
AIRPORT



MOTOROLA
intelligence everywhere™



BACKGROUND

In 1999 Motorola was awarded the contract to supply the Cologne/Bonn Airport with a new digital communication system.

The Cologne/Bonn Airport is situated 14.8 km south east of Cologne City Center.

The TETRA system, which went live in 2001, provides coverage for the Cologne/Bonn Airport. It covers an operational area of 1.000 hectares.

Airport authorities and organizations such as UPS, DHL and German-Lufthansa are the main users of the digital communication system, which will serve around 1.400 subscribers. Currently 300 mobiles and 1.000 portables are being used to handle the growth in passenger numbers.

The Cologne/Bonn Airport handles around 5.4 Million passengers annually and around 140.000 air movements (traffic statistics 2002)

Motorola was chosen for the project for the following reasons:

- Successful application of the analogue Motorola Smartnet system, which served the airport for six years without failure
- Proven technology and extensive expertise of Motorola
- Understanding of user needs and related security issues



CUSTOMER NEEDS

- Digital communication suitable to handle growth in passenger numbers
- Reliable and robust mobile and portable terminals
- Voice and data communication solutions
- Effective communication among the different organizations

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MOTOROLA SOLUTION

Motorola is providing a fully TETRA compliant Dimetra system operating in the 410 – 430 MHz band.

2 sites (1 zone) have been installed to meet the requirements of the different user groups at the airport.

The new digital system includes several wire line Centracom consoles and the new digital telephone switch, NOVA 2000.

Motorola provides coverage to within airport buildings using a complex leaky feeder cable system.



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BENEFITS

- Performance: enhancement via TETRA communication to handle growth in passenger numbers at the airport
- Increase operational efficiency
- Reliability
- Improved communication among staff

