

Flughafen Hamburg GmbH



Background

In order to deal with the rising numbers of passengers last year and the predictions for years to come, Flughafen Hamburg GmbH, the operator of Hamburg Airport, decided to carry out extensive modernization. A new Terminal 1 was built as part of the HAM21 project. This terminal has taken over the main functions of the airport temporarily so that the old Terminal 2 can also be modernized to meet existing and future requirements.

At the heart of the new terminal is a modern baggage conveyor and sorting system with an integrated X-ray device. As a subcontractor of Vanderlande Industries GmbH, Mönchengladbach, PSI Logistics was awarded the contract for supplying the main computer for the baggage sorting system and integrating it into the existing system landscape of the airport.

The new PSIairport/BHS main computer system began operation in May 2005, with all functions working smoothly.

Project definition and requirements

The *PSIairport/FIDS* display system was implemented in addition to the *PSIairport/BHS* software package for sorting baggage.

Both systems are already in use at several national and international airports.

Standardized IATA messages in accordance with RP 1745 (BSM/BPM) are used for exchanging data between connected airlines and the PSI Logistics systems.

PSIairport/BHS helps baggage controllers to carry out their everyday tasks using a flexible and user-friendly user interface. The special workplace dialogs are optimized to endure efficient process flows. *PSIairport/BHS* also provides comprehensive statistics and information and is integrated with the existing Office environment (Word, Excel, and so on).

The *PSIairport/FIDS* system connects seamlessly to the rest of the system landscape. Display panels have been installed in order to provide personnel with the information they require at various locations throughout the system. In addition to LED display panels for displaying plain-text information, TFT display panels have been installed at each rotating belt. *PSIairport/FIDS* allows various different types of display device to be fed with information from other systems (in this case, from *PSIairport/BHS*).

Configuration

A Hewlett Packard cluster system was installed on Windows 2003 Advanced

Server to deal with the demands of operating from 4 a.m. to 10 p.m. seven days a week. The operating clients use Windows XP Professional.

A special feature of the cluster system is the considerable distance between the two nodes. This was made possible by means of a fibre optics connection between the two computers. Oracle Database (version 9) and two independent RAID systems are used to ensure secure data management.

Standard TCP/IP protocols were used to connect the system to the airport and airlines via the SITA network. The display system (*PSIairport/FIDS*) provides 35 two-line LED display panels and 4 TFT panels with information from the main baggage computer.

PSI Logistics GmbH
Dircksenstraße 42-44
D-10178 Berlin
phone +49 / 30 / 28 01-28 50
fax +49 / 30 / 28 01-28 51
www.psilogistics.com
info@psilogistics.com

