

Spare Parts Warehouse Lufthansa CityLine, Cologne-Bonn Airport/Germany

References

Nº 51





Software Upgrade Secures Reliable Spare Parts Supplies

Initial Situation

Lufthansa CityLine undertakes scheduled flights within Europe on behalf of Deutsche Lufthansa AG. At its headquarters at Cologne-Bonn Airport, the company operates an automated three-aisle spare parts warehouse that was built by viastore systems back in 1999. In order to be able to perform the necessary maintenance operations and troubleshooting measures on the planes quickly and cost-effectively and thus keep the aircraft-on-ground time as short as possible, the warehouse has to offer high availability 24 hours a day, seven days a week. The fact that the support contracts for the server operating system and the database were about to expire was therefore considered critical. Moreover, spare parts supplies for the server hardware were also becoming more and more problematic. The warehouse management system was at release level viaware 5.1. In order to minimize the risk of warehouse downtime, Lufthansa CityLine decided to modernize the warehouse management software and replace the relevant hardware components.

System Solution

Picking of spare parts is carried out at two pick stations that are connected to the three-aisle mini-load system via a conveyor system loop. From here the terminals in the maintenance hangar are supplied. Large-volume spare parts are stored in three manual warehouse areas. Administration is via the warehouse management system which was upgraded to the latest **viad@tWMS** version in the scope of the modernization.

To ensure uninterrupted system availability during the individual reconstruction stages, the modernization had to be carried out with the utmost care. Therefore viastore systems simulated each reconstruction phase during advance in-house tests. These included the development of fallback strategies, a multi-phase plan for testing and connecting subordinate components, interface tests with SAP and **viad@t** testing systems as well as simulated data migration.

The Result

The modernization of the warehouse management system and the hardware components ensures long-term warehouse availability and thus reliable spare parts supplies to the Lufthansa CityLine fleet.

Scope of Supply:

- General contractor
- Warehouse management system
- Material flow control system
- S/R machines
- Conveyor system

Essential Features:

- Dimensions:
- Length: 82 ft. (25 m)
- Width: 34 ft. (10.5 m)
- Height: 28 ft. (8.5 m)
- 4,524 tray storage locations
- 3 SRM **viaspeed**
- Trays 35 x 24 in. (900 x 600 mm)